Amateur Radio Trader®

The Ham Radio MarketPlace™

1-800-77-HAM-AD
1-800-774-2623 **$2.95**

Published Twice Monthly by TAP Publishing Company | Volume 2 Number 12 | Second January Issue 1996

SEE ICOM & ART at the TROPICAL HAMBOREE !

February 3-4, 1996
Miami, Florida

ICOM'S FREE
BROCHURE HOTLINE:
(206) 450-6088

ICOM America, Inc. 2380 116th Avenue N.E., Bellevue, WA 98004 U.S.A.
Customer service/technical support 206-454-7619 ©1995 ICOM America, Inc.
The ICOM logo is a registered trademark of ICOM, INC.

ICOM
Experience the Quality

Table of Contents	Page
Classified Advertising	25
Classified Advertising Information	21
Classified Headings' Directory	24
Display Advertisers' Index	23
Display Advertising Information	21
Subscription Information	20
Telephone Area Codes	26

Amateur Radio Trader®
The Ham Radio MarketPlace™
Advertising and Subscriptions
USA and Canada **1-800-774-2623** • *Fax* **1-800-423-9030**
International **615-484-5137** • *Fax* **615-484-2532**

MAILED THIRD CLASS 1-19-96

Amateur Radio Trader
P.O. Box 3729
Crossville, TN 38557

ADDRESS CORRECTION REQUESTED

BULK RATE
U.S. POSTAGE
PAID
Crossville, TN
Permit No. 1

ICOM Next Generation Dual Band Performance!

ULTRA HIGH SPEED SCAN – Catch more of what's going on! The IC-2350H scans twice as fast as older models*, and there are 7 different scan modes to choose from! **WIDE BAND RECEIVE** – Monitor more frequencies right "out of the box" (no modification necessary), including aircraft, public safety, police, fire, marine, weather, and more (receive 118-174 MHz). **CRYSTAL CLEAR RECEPTION** – The built-in, adjustabl (to 10db) RF attenuator improves blocking characteristics and provides a wide squelch

sensitivity range, enabling crystal clear reception of desired signals while fighting IMD (intermodulation distortion) from pagers, lan mobile equipment, and other forms of interference. **A COMBINATION O GREAT FEATURES AT A VERY AFFORDABLE PRICE!** Listen in on all th action using the IC-2350H and discover what a great value this next generation radio is! Visit your ICOM dealer today and hear more of what you've been missing!

ICOM'S ON THE WEB!
http://www.icom america.com/icom

IC-2350H FEATURES:

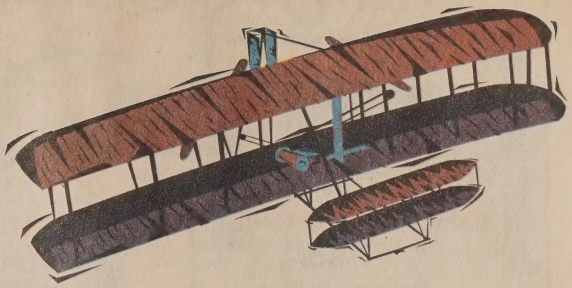
- 2M (45 Watts) & 440 MHz (35 Watts)
- Wide Band Rx (118-174 MHz)
- 110 Channel Memory Backed Up with EEPROM
- Tone Scan (opt. UT-89)
- Remote Control Mic (opt. UT-101)
- PL Encode Built-in
- Built-in Duplexer
- Auto Repeater Shift
- Pager/Code Squelch (opt. UT-101)

Call ICOM's brochure hotline: (206) 450-6088. Or contact ICOM Technical Support in the HamNet Forum on CompuServe @75540,525 (Internet: 75540.525@compuserve.com.). *Scan methods that are approximately twice as fast programmed, full memory and memory skip. © 1995 ICOM America, Inc., 2380-116th Ave. N.E., Bellevue, WA 98004. The ICOM logo is a registered trademark of ICOM, Inc. All stated specifications are subject to change without notice or obligation. All ICOM radios significantly exceed FCC regulations limiting spurious emissions. CompuServe is a registered trademark of CompuServe, Incorporated, an H&R Block Company. 22501195Y

ICOM

ICOM
THE NEXT GENERATION

"THE WORLD IS FLAT"



"THAT THING WILL NEVER FLY"

"THAT ANTENNA IS TOO SMALL TO WORK"

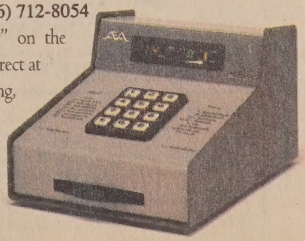
There's one in every crowd—one that pushes the limits and proves the skeptics wrong. The world sailed into a new era of discovery with Columbus. The Wright brothers propelled us into the age of air travel. AEA advances into the ranks of these distinguished pioneers with the IsoLoop 10-30 HF antenna—a 35" loop antenna with low-angle performance that is better than many full-size HF antennas.

One IsoLoop 10-30 HF pioneer offers this: "Big-gun DXers will tell you nothing *that* small can work. They will continue to tell you this after you work a couple hundred countries with it. Ignore them. In 24 months, I have worked 213 countries and confirmed 198."

The reason you get such a big performance in a small package is the efficiency of the IsoLoop 10-30 HF; it's 72% on 20m, rising to 96% on 10m. The main loop serves as an inductor, tuned with a 10,000 volt variable capacitor. Frequency range is 10 MHz to 30 MHz with continuous coverage. The unique compact design is also ideal if you're facing space limitations—mount it in your attic, on a balcony, or go mobile.

With the optional IT-1 Automatic Antenna Tuner (below), tuning your IsoLoop 10-30 HF becomes an adventure in speed— 2 or 3 seconds is typically all the time it takes before you're tuned and ready to go. (Antenna comes standard with a manual tuner.)

Discover the world of big antenna performance in a small antenna. Call our literature request line at **(206) 712-8054** and request the "Inside Story" on the IsoLoop 10-30 HF or call us direct at (206) 774-5554. For best pricing, see your favorite amateur radio equipment dealer.



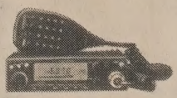
AEA

Connect with us

KENWOOD

Authorized Sales

Call For Best Price



TH-79AD TS-850S TM-241A

8 AM - 5 PM Weekdays
8-12 Noon Saturday
1702 Pass Road
Biloxi, MS 39531

601-432-0584
601-432-1100
FAX 601-432-7651

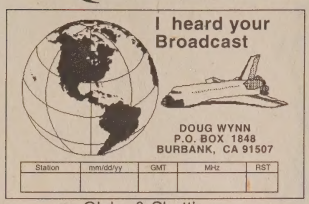
HOOPER ELECTRONIC SUPPLY

Full line of electronic parts and accessories in stock

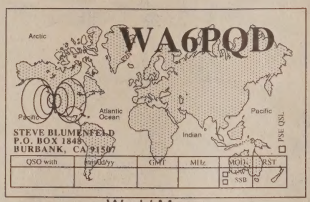
www.cqinternet.com/hooper.htm

MasterCard VISA DISCOVER American Express Card

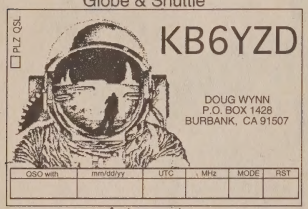
QSL Card Order Form



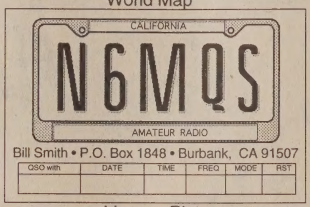
Globe & Shuttle



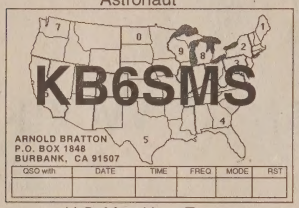
World Map



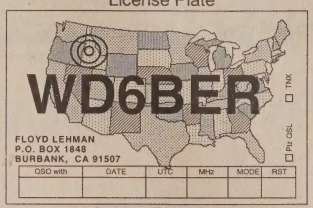
Astronaut



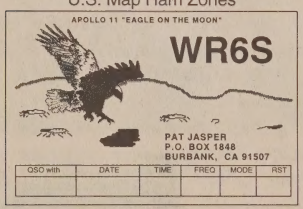
License Plate



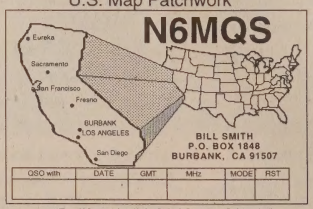
U.S. Map Ham Zones



U.S. Map Patchwork



Eagle on the moon



California/U.S. (CAL ONLY)

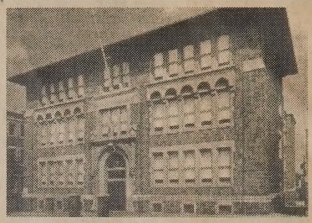
Call Sign _____
Name _____
Address _____
City _____
State Zip _____
Phone # (____) _____-_____

SELECT desired QSL style.
Delivery will be about 2-3 weeks

All QSL cards are printed on five colors of card stock. This gives you 20 cards in each color.

☐ First 100	$9.95 _____
☐ Additional 100's	$6.95 _____
☐ 100 Business card size	$8.95 _____
☐ Package of QSL Holders	$4.99. _____
	Total _____
	TAX 8.25% _____
	Shipping $4.00
	Total Due _____

Mail this form and payment to:
Kamko (818) 843-4080
P.O. Box 1428
Burbank, CA 91507



St. Elizabeth of Hungary School
27 North Lakewood Avenue
Baltimore, Maryland 21224

(410) 276-6344

HELP START A HAM STATION!

St. Elizabeth of Hungary School is an ethnically diverse parochial school in Baltimore City. Richard Gatto, K3MQO, the principal of the school, would like to introduce his students to the world of amateur radio. K3MQO is requesting donations from fellow hams to start a station at the school.

YOU CAN HELP!

An amateur radio station would greatly enhance the students' lives by opening the world to them through ham radio. Do you have some old equipment that you don't need? Help some young people explore the world around them - donate your old equipment to St. Elizabeth of Hungary School.

For more information, call K3MQO at (410) 276-6344

DC ACE ELECTRONICS, INC.
NICADS & MORE FOR LESS!

ADI HT SALE! NOT THE STRIPPED DOWN "CLUB" UNIT, BUT THE REAL USA VERSION WITH ALL THE FACTORY OPTIONS INSIDE! *ENCODE/DECODE PL INCLUDED!* 2M VERSION ONLY **$179.95!** 440 **$199.95**-SHIPPED ASK THEM IF THEY DO? ENCODE/DECODE PL? *NOT!*

12V BATTERY PACK	$48.00
CIG LIGHTER ADAPT	$12.95
SMART CHARGER	$59.95
SPEAKER MIC - *ONLY*	$19.95

2M 5/8 DUCK 12"	$ 9.95
DUAL BAND 12"	$12.00
ANLI RD78-H GAIN	$25.00
1/2 WAVE TELESCOP	$18.00

ADI 2 M MOBILE
50 WATTS
SUPER
PERFORMER
$289.00
FREE SHIPPING!
440-35 W-
$319.00

ROBO CHARGER!
FOR ICOM BP-83/84/85
ALINCO 580/180
YAESU FT 530
STANDARD/ADI
SMART RAPID CHARGER
INTERCHANGABLE
SLIDERS, 1 UNIT CAN
CHARGE ALL ABOVE
COMPLETE W/1 SLIDER
ONLY **$69.95!**
EXTRA SLIDERS **$5.95!**

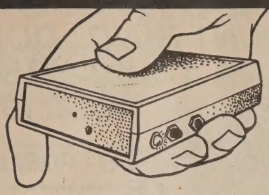
SMART RAPID CHGRS
KENWOOD PB-32/33/34
CHARGES 2 AT ONCE
FOR TH79A-**$59.95**
FOR ICOM/BC79B
YAESU 420/KEN BC15
STANDARD/ADI
ALL **$59.00!**
FOR ICOM BC-35A
BP-7/8/5 ONLY **$49.95!**

NICADS: 850 AA BT **$1.75**
600 MAH BT AA **$1.25**
500 MAH BT AA **$1.00**
850 MAH TABS **$2.00**
NICKL-METL-HYDRIDE
1100 AA BT **$2.50**
MORE! CALL!

BATTERY PACKS
FOR KEN PB-33 1.1 AH
PB-34 600 MAH HI PWR
YAESU FNB-27 12V
ALL **$35.00**
BP-8 1.4AH **$49.00**
BP-7 600 MAH **$50.00**
TONS MORE, CALL!
LOTS OF INSERTS, CALL!

DC ACE, INC.
PO BOX 364
LINCOLNSHIRE, IL 60069
847-821-8122-VISA/MC
ADD $4.50 SHIP/HANDLING PER ORDER EXCEPT RADIOS N/C

The "ZAPPER II"



With it's new and improved design it will not only test your radar detector... BUT it's tuned to the amateur radio band.

- While out on Americas highways personally test yours and your fellow travelers radar detectors.

The "ZAPPER II" is a 10.450 GHz to 10.550 CW oscillator. It has a code key jack installed for those who want to send Morse code.

Built & tuned only **$49.95**

TRANSEL TECHNOLOGIES
MADE IN USA
123 East South Street
Harveys burg, Oh 45032
1-800-829-8321

The Electronic Experimenter's Journal

It's part catalog, part magazine and part data book with kits, parts, plans, articles, and application notes.

Call for your **FREE** copy today

Debco Electronics
4025 Edwards Rd.
Cincinnati, OH 45209
1 800 423 - 4499

CUSTOM MADE FOR YOU
VANITY CALL SIGN
Availability Data
HOW TO GET THE CALL SIGN YOU WANT!

$15.95 plus shipping

- Guaranteed current! Updated DAILY from the FCC's master call sign database.
- Made especially for your region, call sign group and license class.
- Lists every possible 4 and 5 character call sign for which YOU qualify.
- Substantial discount when you order more than one region.
- High density 3½" disks have calls arranged in easy-to-read ASCII format.
- Can quickly be read by any word-processing program or DOS.
- Shipped same day via fast Priority mail. Next day FEDEX service also available.
- Includes complete details on Vanity Call Sign System. How it works...and what you can do to get the call you want!
- Satisfaction guaranteed or money back!

HAM IT UP! — AMATEUR RADIO — A NATIONAL RESOURCE

W5YI GROUP, INC.
P.O. Box 565101, Dallas, TX 75356
Call **1-800-669-9594**
VISA, MasterCard, and Discover accepted

WWW-www.elink.net/~ham

36th ANNUAL

TROPICAL HAMBOREE®

AMATEUR RADIO & COMPUTER SHOW
ARRL HAMFEST OF THE AMERICAS

FEBRUARY 3 - 4, 1996

DADE COUNTY YOUTH FAIR & EXPOSITION CENTER
S.W. 112 AVENUE & CORAL WAY (S.W. 24 ST.)
MIAMI, FLORIDA

EMAIL-edg@elink.com

• Sponsored by Dade Radio Club of Miami, Inc.

TALK IN: 146.925

- **PROGRAMS & ACTIVITIES FOR EVERYONE • 200+ EXHIBIT BOOTHS • 800+ INDOOR SWAP TABLES**
- **TWO ON-SITE LICENSE EXAM SESSIONS • FIELD CHECKING FOR ARRL AND CQ AWARDS**
- **INTRODUCTION TO AMATEUR RADIO DISPLAY • INTERNATIONAL AMATEUR RADIO PRESENTATION**
- **FORUMS ON FCC, AMSAT, ARRL, QCWA, DXPEDITIONS, ANTENNAS, PACKET, TRAFFIC, ARES**
- **ALTERNATE INTEREST PROGRAMS ON CRAFTS, PERSONAL APPEARANCE, HEALTH & NUTRITION**

ON-SITE CAMPING FOR 300 RVs • FREE PARKING FOR 15,000 VEHICLES

Registration: $5.00 Advance (deadline Jan. 31st) - $7.00 Door
Campsites: 3 days (Fri., Sat., Sun.) $45.00, 4 days (Thur., Fri., Sat., Sun.) $60.00
Swap Tables: $25.00 each* plus reg. ticket • Power: $10.00 per user.
*CALL OR FAX FOR SWAP SPACE AVAILABILITY BEFORE SENDING IN TABLE RESERVATION.
(Prices quoted for tickets, tables & camping include Fla. & Dade Co. tax)

Headquarters Hotel: Miami Airport Fairfield Inn - $63.00 Double/Single + Tax
(Complimentary Continental Breakfast) Tel. (305) 649-5000 - Speak Only to Reservation Department and MUST Mention "Tropical Hamboree" to get special rate. Deadline January 18, 1996.

TICKET, CAMP, TABLE PAYMENTS **PAYABLE TO: DADE RADIO CLUB OF MIAMI, INC.**
Mail to: Evelyn Gauzens, W4WYR, 2780 N.W. 3 St., Miami, FL 33125-5059
BOOTH & TABLE INQUIRIES: Call 305-642-4139 or Fax: 305-642-1648

L.A. CommCenter

12808 PARAMOUNT BLVD., DOWNEY, CA 90242

ORDERS 1-800-638-6999

(310) 861-1297 FAX: (310) 861-6516

AMATEUR RADIO • COMMERCIAL RADIOS • PUBLIC SAFETY TWO-WAY RADIOS

We carry a full line of T.S. Antenna's products, as well as other brand-name accessories!

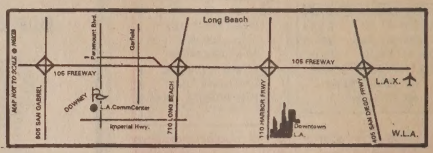
ICOM · STANDARD · ALINCO ELECTRONICS INC. · KENWOOD · YAESU

- ARRL
- ASTRON
- CUSHCRAFT
- HUSTLER
- HY-GAIN
- MAXRAD ANTENNAS
- PC ELECTRONICS (ATV)
- W&W ASSOC. BATTERIES
- MUCH MORE!!

HOW TO FIND US:

SAN DIEGO FREEWAY (I-405): Take the 405 North or South to the 105 Freeway West, passing the 110 Harbor Freeway and the 710 Long Beach Freeway. Take the Exit, which will be Garfield. Cross Garfield and go to the next light. Make a left turn here onto Paramount. Go North eight blocks. L.A. COMMCENTER will be on the right!

SAN GABRIEL FREEWAY (I-605): Take 605 North or South to the 105 Freeway. Go West on 105. Take the Paramount Exit and turn right. Go North eight blocks. L.A. COMMCENTER will be on the right!



AMATEUR RADIO TRADER ADS GET RESULTS! READ ON:

"I want you to know how excited I am about ***The Amateur Radio Trader.*** *It is uniquely positioned to bring our message to amateurs who might be interested in upgrading their licenses. Morse Code is so much easier and faster when it is learned as language that I want every struggling ham to get the word. Since I have been advertising in* ***The Amateur Radio Trader,*** *we have watched our gross operating profit quadruple! The media is perfect for our message! We hope that your publication continues to prosper as it provides a positive and very special addition to the amateur community. Keep up the good work."*

- GERALD WHEELER, WHEELER APPLIED RESEARCH

"Excellent results and I thank you for your persistance. We have experienced an increase in business so dramatic that it was impossible to keep up."

- DON ZEMAN, DC ACE ELECTRONICS

Do you want to get your advertising message out to ALL active hams? Are you ready to see your business increase in sales as more hams see your message than ever before?

Call us today! 1-800-774-2623

Amateur Radio Trader.®

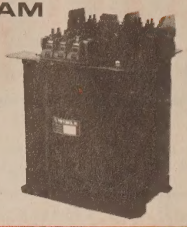
The Ham Radio MarketPlace.™

PETER DAHL CO.

Heavy Duty Components

FOR THE SERIOUS HAM

Hipersil Plate & Filament Transformers,
High Voltage Rectifiers,
DC Filter Chokes & Capacitors,
Vacuum Variables, Roller Inductors,
RF Plate & Filament Chokes.



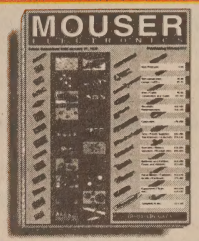
Write or FAX for an extensive catalog

5869 Waycross Avenue TEL: (915) 751- 2300
El Paso, Texas 79924 FAX: (915) 751- 0768
http://www.leaglel.com/commercial/pwdco/ EMAIL: pwdco@leaglel.com

GIVE YOUR
HR-2510 HR-2600
the same features as the
"BIG RIGS"
CHIPSWITCH
4773 Sonoma Hwy. Suite 132
Santa Rosa, CA 95409-4269
Write or call (707) 539-0512 for FREE information

IN STOCK

MOUSER ELECTRONICS



FREE 324 page catalog

60,278 Products
120 Manufacturers
All Orders Ship Same Day

- Passive Components
- Electromechanical
- Semiconductors
- Connector/Cable
- Surface Mount and Through Hole

800-992-9943
FAX: 817-483-0931
Internet: http://www.mouser.com

MOUSER ELECTRONICS
958 North Main St., Mansfield, TX 76063

Pocket Simplex Repeater System

- Handie Talkie Ready • Plugs into Mic/Spk Jacks
- 32 or 65 Second Operation • 32 Kbit operation
- 2 Mode operation Announce or Repeater

Assemble your own personal relay station, double your communication range. Flick the switch to mode 2 (announce), and have a talking sign that announces your special events or your town's interests. Turn your favorite simplex frequency or duplex repeater into a powerhouse of interest by simply using your speaker microphone connections. Creating your own portable station allows you to double your range anywhere anytime privately.

Radio not included Icom, Yaesu, Motorola ready.

$189.95+6.50 S+H US Currency $22.50 Optional Leather Case
$12.50 optional tote bag

It's Amazing what Simplex can do Better!

US Digital Ltd
380 Rougeau Ave
Winnipeg, MB
Canada R2C 4A2

US Money Order, Certified Cheque
Personal Cheque - Clearing Time
Master Card

Available at BURGHARDT'S AMATEUR SALES,
1-800-927-4261
P.O. Box 73, Watertown, SD 57201-0073
Fax 1-605-886-3444

Pocket Morse Code Trainer

Learn Code Faster & Easier
Better than code tapes
Take it anywhere to practice
Light weight & compact

The Deluxe Pocket Morse Code Trainer

*Selectable code rates from 3 wpm to 33 wpm
* Plays standard or Farnsworth
* Size 1" x 3.8" x 2.4"
* Runs 40 hrs on one 9 v battery

1) **Plays continuous fresh random code** (Selectable letter groups, ie A-Z, 0-9, & more)
2) **Preprogramed random character playing**
3) **Interactive training** (Excellent for beginners)
4) **Continious newly generated QSO** (1 million different QSO like the General exam)
5) **Preprogamed QSO to check accuracy**
6) **Continuous random words Playing**

The Ultimate Pocket Morse Code Trainer

It has all the above features plus
1) A 16 character LCD display which allows you to check yourself during or after a QSO
2) Internal amplified speaker.
3) Selectable random character playing. (Select which character or numbers to practice)

Call 214-350-0888 Price $99.00
Add 2.50 for a mono ear piece & 3.50 for a stereo head set
Visa/MC accepted Add $6.00 S/H + 8.25% Tx
Computer Aided Technology, 4088 Lindberg Dr, Dallas, Tx 75244

DAYTON hamvention® '96

✣ May 17, 18, 19, 1996 ✣

General Chairman, Ken Allen, KB8KE

Asst. General Chairman, Dick Miller, N8CBU

✷ Giant 3 day Flea Market ✷ Exhibits ✷ Activities for the Non-Ham

When and Where •• •• NEW DATE THIS YEAR •• ••

May 17, 18 and 19, 1996; Dayton, Ohio at Hara Arena

Communications

FAXMail: (information sent to you via FAX): Set your Fax to manual send/receive, then call (513) 276-6934

BBS via America Online: Keyword "Ham", then "Conference", then "conventions", then "Hamvention"

PHONE: (513) 276-6930. For fast response, please obtain the committee Voice Mail box numbers via FAXMail or BBS.

FAX (incoming): (513) 274-8369

MAIL: Hamvention, Box 964, Dayton, Ohio 45401-0964

E-MAIL: Hamvention@aol.com or n8emo@ix.netcom.com

WWW: http://users.aol.com/hamradclub/dayton.htm

Special Services

Lodging information and special award nomination forms were in our 1995 Program. A limited number of Handicap parking permits are available. License Exam by appointment only. For Form 610, call 1-800-418-3676
Call, FAX, Mail, or BBS for more information.

Bus service

Bus service will be provided between Hamvention, Air Force Museum, Salem Mall and Forest Park Mall parking areas. Many hotels/motels will have bus service for a nominal charge.

Returned Checks

A $25 service charge will be assessed on all returned checks.

Deadlines

In order to have time to return tickets to you, we must have advanced registration orders postmarked not later than May 3 (USA) or April 26 (Canada). Tickets will not be mailed before January 15th,1996. Ticket requests that are received **AFTER** the deadline will be processed and **HELD** for pick-up at the Hamvention Office in the Silver Arena. Tickets can be picked up beginning Thursday, May 16 at 8:00 a.m.

Flea Market

Flea Market Tickets (valid all 3 days) will be sold IN ADVANCE ONLY. No spaces sold at gate. A maximum of 3 spaces per person (non-transferable). Electricity is available in a portion of the last Flea Market row for $50 additional. Rental tables and chairs are not available in the Flea Market. Vendors ***MUST*** order an admission ticket for each person when ordering Flea Market spaces. Please send a separate check for Flea Market space(s) and admission ticket(s). Spaces will be allocated by the Hamvention committee from orders mailed by February 5. Please use 1st class mail *only*.

Notification of Flea Market space assignment will be mailed on or about **March 25, 1996**. Please indicate in the box below if you would like to attend regardless of Flea Market space assignment.

HAMVENTION Is sponsored by the Dayton Amateur Radio Association Inc.

Advance Registration

Enclose check or money order for amount indicated in U.S. dollars and type or print your name and address clearly.

Make checks payable to:

Dayton HAMVENTION Mail to -
Dayton Hamvention Box 1446, Dayton, OH 45401-1446

Flea Market tickets *Please check one and enclose **two** checks.*

❑ Send admission tickets **only** if flea market space(s) assigned.

❑ Send admission tickets **regardless** of flea market space assignment.

	How Many		
Admission (valid all 3 days)	_____	@ $12.00*	$_____
Grand Banquet	_____	@ $23.00**	$_____
Alternate Activities			
Saturday Luncheon	_____	@ $9.00	$_____
Sunday Luncheon	_____	@ $9.00	$_____
		Total	$_____
Flea Market ‡	_____	$45/1 space	
(Max.3 spaces)	_____	$100/2 adjacent	
	_____	$200/3 adjacent	$_____
Electricity	add _____	$50.00	$_____
Covered tent	_____	$290.00 ea.	$_____
		Total	$_____

Name _____ Call _____

Address _____

City _____ State _____ Zip+4 _____ – _____

Daytime Phone # ( )_____ Evening Phone # ( ) _____

* $15.00 at door
**$25.00 at door, if available
‡ Admission ticket must be ordered with flea market spaces

Code Quick

Your Best Route to TECH, GENERAL or EXTRA!

Ever feel trapped in a code maze? Just when you think you have it, your mind goes completely blank! When you go for a test and miss a letter, your brain goes numb and you wake up four characters later, everything sounding like gibberish? **You need Code Quick!** Use this simple program for a month, add daily practice and like magic become a CW expert. You'll never get frozen on a plateau! Don't miss the thrill of throwing the power switch, calling CQs, engaging in nets, and receiving QSLs from all over the world! Since Code Quick was invented, thousands have used it to amaze and surprise themselves and their families. You can do it too! Thousands who never thought they could, have crashed through to new heights. Our failure rate is nearly zero!

Why do 90% of Code Students Quit?

Hitting a wall and totally frustrated, most of us have felt like giving up! Learning CW the traditional way, (even by Farnsworth) we need to master 44 characters at each new speed. Our progress grinds to a halt while we struggle to grasp one unrelated set after another until by 20 WPM, we know 300+ characters! Order Code Quick, learn one easy set and be on your way to 20WPM or more!!

Code Quick is different.
It's not just another code course,
You hear code just like you talk.
It will work for you, too!
Don't waste another precious minute!
Sail thru your next FCC test!
Receive 5 dynamic cassette tapes, visual memory cards and manual packed with upgrade secrets.
Order now and receive as our free gift to you- the brand new Stepper tape!
Still only $42.95!
plus $5.95 Postage/Handling

Listen to these delighted users!

"This course would be a good deal at $100.00." Dr. BS Birmingham AL
"In just 3 weeks I went from 6-20WPM, got my Extra!" MD Costa Mesa CA
"Exactly 57 days from the start of using Code Quick I went to an ARRL VEC test session feeling confident that I would pass the 13 WPM code test. Did I pass? Yes.....and the 20 WPM test also!" FA Maryland, NY
"I began my study on March 20th and passed my Extra exam on April 29th! Ya Hoo!" JB Westminster, CA
"My friend said, 'It won't work'. My EXTRA ticket says otherwise!" BJ Dunn NC

Learn Code as Language Not dahs and dits!

Mastering dahs and dits is like learning Chinese. Code Quick turns the characters into English so you will learn it fast, never forget it again, and be able to copy code any way it's sent to you! You do this same thing in speech all the time. Now use the amazing language ability you already have to produce your own code miracle.

Code Quick is sold with the only "No questions asked" guarantee!
If not completely satisfied, return your kit within 90 days. You pay only postage!

Zero to 13 WPM in 30 Days Average! --- Twenty WPM In A Couple Of Months!

Yes! I'll take you up on your offer.
Order Code Quick 103 Today -
Shipping and handling - $5.95
CA add $3.22 sales tax.
Just $42.95

For faster service Call toll free 1-800-782-4869 today!

Wheeler Applied Research
38221 Desert Greens Dr. West
Palm Desert, CA 92260
If you prefer, you may fax your request to us at (619) 773-2674

Make Your Own Etched Circuit Boards . . .

With Kepro!

To make your own prototype printed circuit boards, call Kepro – for your **FREE** "How to Make a Printed Circuit Board" booklet.

For our catalog of products and services, or our easy step-by-step "How To" booklet, call:

800-325-3878

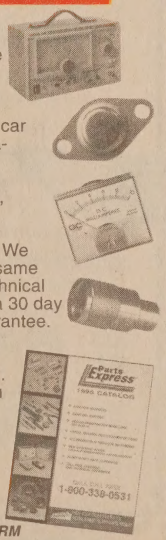
kepro
Kepro Circuit Systems, Inc.

Kepro Circuit Systems, Inc. 630 Axminister Drive Fenton, MO 63026-2992
314-343-1630 in St. Louis FAX 314-343-0668 800-325-3878

Do you want *your* ad to get results?
Place it in Amateur Radio Trader -
***The* Ham Radio MarketPlace.**
1-800-77-HAM-AD
(1-800-774-2623)

Parts Express

Parts Express is your one stop source for a huge selection of semiconductors, test equipment, loudspeakers for car and home, educational material, public address gear, repair parts, project boxes, switches...the list goes on and on! We offer low prices, same day shipping, technical assistance, and a 30 day money back guarantee. Call now for your copy of our free 212 page catalog. You'll be glad you did!



FREE
212 PAGE CATALOG!

SOURCE CODE: ARM

CALL TOLL FREE
1-800-338-0531
340 E. First St., Dayton, Ohio 45402-1257
Phone: 513-222-0173 Fax: 513-222-4644

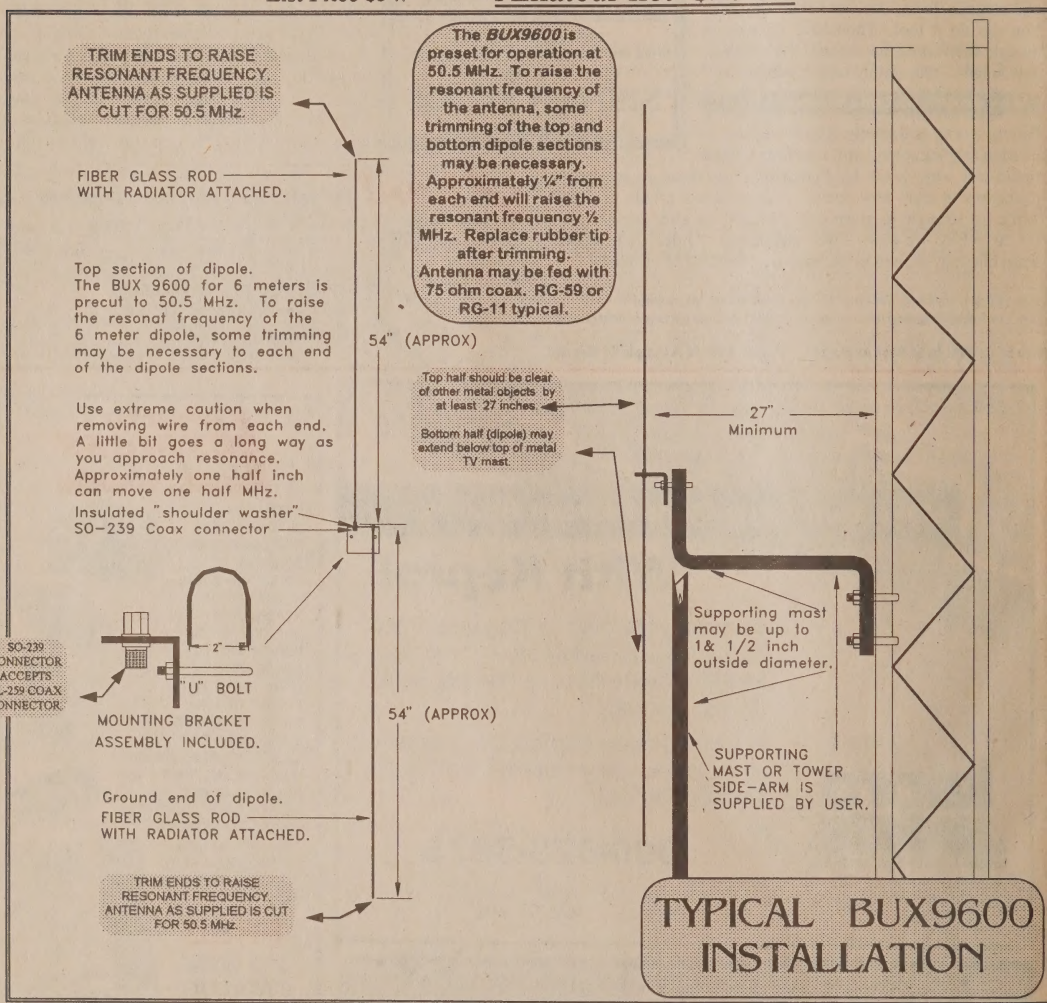
Join the activity on 6 meters with the

BUX 9600

SIX Meter *Vertical Dipole Antenna*

Vertical polarization enables you can reach the mobile whips with more power and gain.

List Price $34.95 Amateur net $29.95


TRIM ENDS TO RAISE RESONANT FREQUENCY. ANTENNA AS SUPPLIED IS CUT FOR 50.5 MHz.
The BUX9600 is preset for operation at 50.5 MHz. To raise the resonant frequency of the antenna, some trimming of the top and bottom dipole sections may be necessary. Approximately ¼" from each end will raise the resonant frequency ½ MHz. Replace rubber tip after trimming. Antenna may be fed with 75 ohm coax. RG-59 or RG-11 typical.
FIBER GLASS ROD WITH RADIATOR ATTACHED.
Top section of dipole. The BUX 9600 for 6 meters is precut to 50.5 MHz. To raise the resonat frequency of the 6 meter dipole, some trimming may be necessary to each end of the dipole sections.
54" (APPROX)
Top half should be clear of other metal objects by at least 27 inches.
27" Minimum
Bottom half (dipole) may extend below top of metal TV mast.
Use extreme caution when removing wire from each end. A little bit goes a long way as you approach resonance. Approximately one half inch can move one half MHz.
Insulated "shoulder washer"
SO-239 Coax connector
Supporting mast may be up to 1& 1/2 inch outside diameter.
SO-239 CONNECTOR ACCEPTS PL-259 COAX CONNECTOR.
2"
"U" BOLT
MOUNTING BRACKET ASSEMBLY INCLUDED.
54" (APPROX)
SUPPORTING MAST OR TOWER SIDE-ARM IS SUPPLIED BY USER.
Ground end of dipole.
FIBER GLASS ROD WITH RADIATOR ATTACHED.
TRIM ENDS TO RAISE RESONANT FREQUENCY. ANTENNA AS SUPPLIED IS CUT FOR 50.5 MHz.
TYPICAL BUX9600 INSTALLATION

The *BUX 9600* six meter vertical dipole is rated at 125 watts and is constructed of fiber glass rod and aluminum. The *BUX 9600* is designed for rugged climate and ease of installation. Total windload is less than 1 ft lb, and weight is under 3 lbs. Overall length is 110 inches. The *BUX 9600* may be side mounted on existing tower, or attached atop a standard TV mast. "U" bolt and antenna bracket ***are included***. Tower side mounting hardware is supplied by user. USA ONLY!

DISTRIBUTED BY: *BUX ENTERPRISES INC; 211 Luenburg Drive; Evington, VA 24550* Phone: (804) 525-7818 *Evenings* 5 to 9 PM *Saturday* 8 AM to 6 PM

Pas Ham Enterprises

(601) 762-8070

1106 13th Street • Pascagoula, MS 39567

ADI Ht's & Mobile Radios	**MFJ-Full line**	**Vectronics Tuners**
Daiwa	**Amplifiers**	**Antennas, Mobile & Base**
Power Supplies	Ameritron	ProAm
Duplexers	RF Systems	Van Gordon
Meters & Coax Switches	TE Systems	Valor
Heil Sound	**NYE Viking Keys**	**Coax, ladder line**
Microphones	**Training Materials**	**Hard-drawn copper wire**
Headsets	ARRL	**Black Dacron line**
Kantronics TNC's	W5YI	**Van Gordon Baluns**

We Buy & Sell Good Used Equipment

All used equipment checked out prior to sale

Free Shipping on Orders over $50, Discounts on phone orders

We Accept Visa, Master Card or Discover Cards
Cash or Certified Check only for COD's

Mississippi Residents - add 7% State Sales Tax

Advanced RF Design, Inc.

VHF/UHF High-Power, Ultra-Fast, RF-Sensed, PIN-Diode T/R Switches

- Switches in less than 15 microsec.
- Handles 200W to 2KW
- Isolation >60 dB
- Insertion loss <0.3 dB
- Ultra-Sensitive - will sense SSB suppressed carrier
- Allows high power AND mounting of preamp at antenna

Call for information and spec sheet.

Orders (800) NOW-ARFD (669-2733)

Info (609) 448-0910

Fax (609) 448-6689

INTERNATIONAL ANTENNA CORPORATION

IAC

Proudly Introduces the...

DOUBLE BAZOOKA

The Ultimate in high performance broadband dipole antennas available for the 17, 20, 40 and 80 meter bands

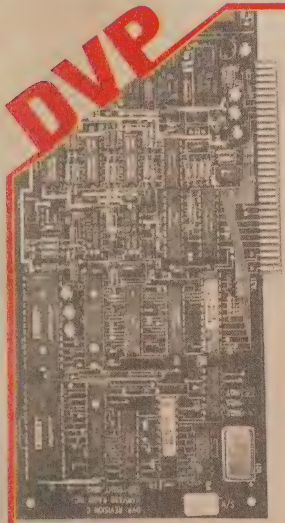
▶ Double Bazookas perform --with 1.5 dB gain over standard halfwave dipoles or vertical antennas. Handles full legal power.

For a superior performance option - Double Bazookas are available as a phased array Two element phased array provides forward gain up to 5.5 dB over a dipole with a front to back ratio of typically 20 dB

	Double Bazooka	Phased array add on kit
17 meters	$105.00	$120.00
20 meters	$105.00	$122.00
40 meters	$115.00	$138.00
80 meters	$125.00	$160.00

4841 Fayann Street, Orlando, FL 32812-8649

407-380-6270



On Line again . . . DVP by K1EA

Now produced by **ACOM Ltd.** (producers of the ET0 91B Amplifier)
Distributed in the U.S., Europe & Japan by **LZ Engineering**

The **Digital Voice Processor** (DVP) is a plug-in board that can transform your PC into a powerful digital voice keyer and recorder. Controlled by the CT contest logging software, high speed 12-bit digitizers store data on your hard disk (or RAMdisk) and generate natural sounding audio at the touch of a function key.

FOR CONTESTERS: DVP automates voice QSOs in the same way that CT automates CW QSOs. Digitize each letter of the alphabet and obtain maximum pleasure from your operation with minimum use of your voice. Today's high-tech competition demands this state-of-the-art DVP.

FOR DXERS: Use DVP to digitize received audio. Listen again to that marginal signal to discern elusive call signs. Create an audio library of those rare ones, your DXCC contacts, or most memorable moments on the air.

Price List		US/Canada	DX
DVP only	$149.95	$6 S/H	$19
DVP with CT version 8 for XT/AT/386/486	$199.95	$6 S/H	$19
DVP with CT version 9 for 386/486/Pent.	$214.95	$6 S/H	$19
CT version 8 for XT//386/486	$ 69.95	$4 S/H	$ 8
CT version 9 for 386/486	$ 79.95	$4 S/H	$ 8
DVP Cables (specify radio type)	$ 44.95		

Quantity discounts available for orders of 5 or more units. MA add 5%

Payment by US check, Mastercard & Visa

Lifetime Warranty

LZ ENGINEERING
1063 Massachusetts Ave.
Arlington MA 02174
Order 24 hrs: 617-646-7490
FAX: 617-648-0615
Tech Support: 617-646-2495

See us on the Internet at www.sysu.com/dvp or E-mail at aa1nd@aol.com or dvp @sysu.com

Digital Communications As Easy As 1,2,3 *With* The Most Affordable Multimode *DSP* Modem This Is Your Connection To The Digital World

P38

CALL TODAY FOR SOFTWARE SPECIALS!

CLOVER
AMTOR
PACTOR
BAUDOT
ASCII

BBS NETS
RAG CHEW
DX CONTESTS
IMAGE FILES
DIGITAL VOICE

ERROR FREE
HIGH SPEED
WEAK SIGNAL

WORK ALL MODES & DATA TYPES WITH TOP PERFORMANCE.

LARGE SOFTWARE SUPPORT LIBRARY AVAILABLE NOW!

All of these modes with DSP performance for only

$395

Operates CLOVER, AMTOR, PACTOR, and RTTY

CALL OR FAX THE HAMS AT HAL

MIKE, W9KVF OR MARK, WB9HFK

PHONE (217) 367-7373 FAX (217) 367-1701

VISA MasterCard

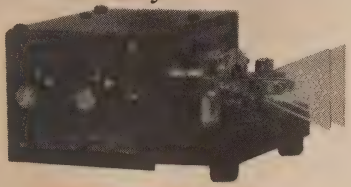
HAL Communications Corp.
P.O. Box 365
Urbana, IL 61801 USA
E-Mail: halcomm@prairienet.org

MFJ CW KEYERS

More hams use MFJ keyers, memory keyers, CW keyboards, than all others in the world . . . Write or call toll-free 800-647-1800 for more information . . . Choose one that's right for you . . .

MFJ Keyer/Bencher Paddle Combo

MFJ and Bencher team up to bring you America's most popular keyer in a compact package for smooth easy CW . . .



MFJ-422C **$134.95**

The *best* of all CW worlds -- a *deluxe MFJ Keyer* that fits right on the *Bencher iambic paddle*! You can buy the combo or just the keyer for *your* Bencher.

This *MFJ/Bencher Keyer* is small in size, big in features. You get adjustable weight and tone, and front panel volume and speed controls (8-50 WPM). You also get built-in dot-dash memories, speaker, sidetone and push button selection of semi-automatic/tune or automatic modes. Ultra-reliable solid state keying for all solid state and tube transmitters. Fully shielded for RFI. Use 9 volt battery or 110 VAC with MFJ-1312B, $12.95. 4⅛x2⅝x5¼ inches

MFJ-422CX, $79.95. Keyer only, fits on *your* Bencher or MFJ-564 below.

MFJ *Econo* Keyer II

MFJ-401C **$49.95**

MFJ's Econo Keyer gives you more features for your money than any other keyer in ham radio! Send iambic, automatic, semi- automatic or manual with your squeeze, single lever or straight key.

Dot-dash memories, self-completing dots and dashes, jam-proof spacing. Instant start. RF proof. Front panel volume, speed (8 to 50 WPM) control, tune switch. Internal weight, tone controls. Solid state keying. Quality construction. 4x2x3½ inch.

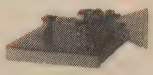
MFJ *Deluxe* Keyer

MFJ-407C **$69.95**

Deluxe MFJ Keyer has all controls on front panel for easy access -- speed, weight, tone, volume knobs, and tune, semi/auto, on/off push-buttons. You get all keyer modes, dot-dash memories, self completing dots and dashes, jam-proof spacing, sidetone, built-in speaker, type A or B keying. RF proof. Solid state keying. 7x2x6 inches.

MFJ Iambic Paddles

MFJ-564 **$49.95**



MFJ *Deluxe Iambic Paddles*™ feature full range of adjustments in tension and contact spacing. Self-adjusting nylon and steel needle bearings, contact points that almost never need cleaning, precision machined frame and non-skid feet on heavy chrome base. Works with all electronic keyers. MFJ-422CX keyer/ MFJ-490X memory keyer mount on MFJ-564.

Memory Keyers

Menu Driven -- so easy-to-use you don't need an instruction manual

MFJ Memory Keyer/Bencher Paddle

MFJ-490 **$164.95**

MFJ-490 *MenuDriven Memory Keyer*™ is mounted on a Bencher iambic paddle. Stores 192 characters in 4 message memories. Morse trainer, sidetone, automatic serial numbering plus all the features of MFJ-492 less remote control jack, extra memory. MFJ-490X, $109.95, keyer only, no paddle.

MenuDriven Memory Keyer

MFJ-492 **$99.95**

MFJ-492 *MenuDriven Memory Keyer*™ stores 192 characters in 4 battery backed-up message memories. Expands to 8000 characters, 8 memories with MFJ-80, $14.95. Automatic, semi-automatic bug or handkey modes, reverse dot/dash paddles, select iambic A or B or non-iambic modes. Morse trainer, automatic serial numbering; sidetone, volume, speed controls; remote control jack.

MenuDriven Memory Keyer/Keyboard

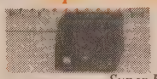
MFJ-493 **$139.95**

MFJ-493 *Super Menu Driven Memory Keyer*™ is the world's most advanced memory keyer! Stores 32,000 characters. Plug in your AT keyboard and turn it into a full featured CW keyboard. Serial port lets your computer compose, edit, display, save messages, record transmissions. *FCC Exam Simulator, QSO Simulator, Word Recognition Trainer,* remote control jack, plus all features of MFJ-492. **MFJ-78, $19.95,** MFJ-492/493 Remote Control.

CW Keyboards

Each includes RFI-suppressed keyboard

Super CW Keyboard with LCD



MFJ-452 **$129.95** *Includes Keyboard!*

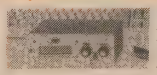
Send effortless CW with this *MFJ Super Keyboard* -- no computer needed. **Stand-alone** *MFJ Super Keyboard* includes RFI suppressed keyboard, two line 16 character LCD display, eight 250 character *nonvolatile* message memories, 150 character type-ahead buffer, iambic paddle jack, plus powerful Morse Code Trainer. Speaker, sidetone, volume control. Keys all solid state and tube rigs.

Dedicated CW Keyboard

MFJ-451 **$99.95** *Includes Keyboard!*

MFJ-451 gives you all features of *MFJ-452 Super Keyboard* less LCD and Morse Code Trainer. 200 character type-ahead buffer, two 100 character message memories. 3½x1¼x4 inches. **MFJ-451X, $79.95,** same as MFJ-451 less keyboard.

Keyboard w/LCD, 32K, *ExamSimulator*



MFJ-498 **$179.95** *Includes Keyboard!*

World's most powerful CW keyboard has all features of *MFJ-452 Super Keyboard,* plus 32K of battery backed-up message memory . . . *FCC ExamSimulator*™ sends you FCC-type exams . . . *MFJ QSO Simulator*™ gives you operating experience while boosting your code speed . . . *WordRecognition*™ lets you copy entire words in your head . . . *MFJ AnalogSet*™ speed knob lets you customize your speed range. 6½x2½x6¾". **MFJ-498X, $159.95,** same as MFJ-498 less keyboard. **MFJ-564, $49.95,** Iambic Paddle.

Personal Morse Tutor

MFJ-411 **$79.95**

Learn Morse code *anywhere* with this pocket size battery operated *MFJ Personal Morse Code Tutor*™! Follows ARRL/VEC format.

Go from zero code speed with beginner's course to Extra Class with customized code practice. Select letters, numbers, prosigns or punctuations, or any combination, or words or QSOs. Normal or Farnsworth spacing. Use earphones or built-in speaker.

Code Practice Oscillator

MFJ-557 **$24.95**

Have fun learning Morse code with this *MFJ Deluxe Code Practice Oscillator*™. Morse key and speaker mounted on heavy steel base -- stays put. Earphone jack, tone, volume controls, adjustable key. 8½x2¼x3¼"

MFJ CW Reader

MFJ-462B **$169.95**

Plug this *MFJ CW Reader* into your receiver's earphone jack. Copy CW as it scrolls across an easy-to-read 32 character LCD.

Automatic speed tracking, printer port, 8K *MessageSaver*™. Also copies RTTY, ASCII.

Free MFJ Catalog

Write or call toll-free . . . 800-647-1800

Nearest Dealer/Order: 800-647-1800

• 1 year *unconditional* guarantee • 30 day money back guarantee (less s/h) on orders from MFJ • ***Free*** catalog

MFJ ENTERPRISES, INC.
Box 494, Miss. State, MS 39762
(601) 323-5869; 8-4:30 CST, Mon-Fri
FAX: (601) 323-6551; **add s/h**
7206.1763©compuserve.com

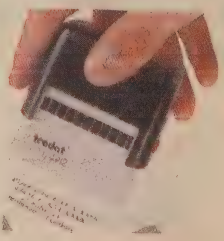
Prices and Specifications subject to change © MFJ Enterprises, Inc.

MFJ . . . making quality affordable

WINTER SPECIALS!

More Time To Do What You Love Best!

Make your correspondence FAST, EASY & PROFESSIONAL LOOKING!



- Your custom message
- Choose Block or *Italic* Type.
- Choose From 5 ink colors.
- Non-slip feet prevent smeared impressions
- Index Window
- Ships FREE!
- Thousands of impressions
- Self-inking
- Satisfaction or your money back!

Size A: Up to 4 lines, 24 letters & spaces per line **$9.95**
Size B: Up to 5 lines, 28 letters & spaces per line **$12.95**
Size C: Up to 6 lines, 32 letters & spaces per line **$14.95**

Jonathan Lee, KD4ZSD
Rt. 4, Box 113
Elkton, VA 22827

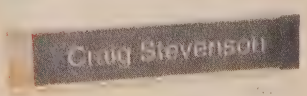
Based on this size type

For this size type add $2.

No. 212A	2x8*	**$14.75**
No. 212B	2x10*	**$15.95**

Name Badge
No. 112 7/8" x 2--1/2" **$4.95**

Color Choices:



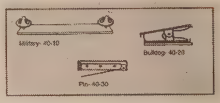
Your Name And Call Sign On A Name Badge Or Desk Sign!

No. 401A	2x8*	**$9.95**
No. 401B	2x10*	**$10.95**

Choice of gold or silver holder

**2x8; Up to 16 letters & spaces per line (2 lines)*
**2x10; Up to 20 letters & spaces per line (2 lines)*

Fastener Choice:



BLUE RIDGE OFFICE PRODUCTS
Rt. 4, Box 113,
Elkton, VA 22827

Stamps		
Ink Color Circle one:	**Typestyle** Circle one:	**Format** Circle one:
Black Blue Red Violet Green	**Block** ***Italic***	**Centered Flush Left**

Desk Signs		Name Badges	
Style Circle One:	**Sign** Color:	**Fastener** Circle one:	**Badge** Color:
212A 212B 401A Gold 401A Silver 401B Gold 401B Silver		**Military Bulldog Clip**	

Imprint Information:
Please print clearly

Line 1 _____
Line 2 _____
Line 3 _____
Line 4 _____
Line 5 _____
Line 6 _____

Send my order to:
Print Name_____ **Address**_____
City_____ **St**_____ **ZIP**_____ **Phone ( )**_____

Please allow 2-3 weeks for delivery! Va. Residents add 4.5 % tax. Add $2 for larger type on stamps.
Mail form with check or M.O. to Blue Ridge Office Products , Rt. 4, Box 113, Elkton, VA 22827.

MFJ *tunable* DSP *filter*

NEW

. . . Tunable "brick wall" bandpass, lowpass, highpass, notch, SSB, CW filters . . . programmable pre-set filters . . . automatic multiple notch filter eliminates heterodynes . . . adaptive noise reduction reduces noise and QRN . . . for Voice, CW, Data . . .

MFJ's ***tunable*** **super DSP filter automatically eliminates heterodynes, reduces noise and interference** ***simultaneously*** **on SSB, AM, CW, packet, AMTOR, PACTOR, RTTY, SSTV, WeFAX, FAX, weak signal VHF, EME, satellite -- nearly any mode.**

Only MFJ gives you tunable and programmable "brick wall" DSP filters

MFJ-784B

$249.95

Patent pending

You get MFJ's tunable FIR linear phase filters that minimize ringing, prevent data errors and have "brick wall" filter response with up to 57 dB attenuation just 75 Hz away.

Only **MFJ gives you 5** ***tunable*** **DSP filters. You can** ***tune*** **each lowpass, highpass, notch, and bandpass filter including optimized SSB and CW filters. You can** ***vary*** **the bandwidth to pinpoint and eliminate interference.**

Only **MFJ gives you 5** ***factory*** **pre-set filters and 10** ***programmable*** **pre-set filters that you can customize. Instantly remove QRM with the turn of a switch!**

You get MFJ's ***automatic notch*** **filter that searches for and eliminates** ***multiple*** **heterodynes.**

You also get MFJ's advanced ***adaptive noise reduction.*** **It silences background noise and QRN so much that SSB signals sound like local FM.**

The ***automatic*** **notch and** ***adaptive*** **noise reduction can be used with** ***all*** **relevant tunable pre-set filters.**

Automatic gain control **(AGC) keeps audio level constant during signal fade.**

Automatic notch filter

MFJ's automatic notch filter searches for and eliminates multiple heterodynes in milli-seconds. It's so fast, that even *interfering* CW and RTTY signals can also be eliminated.

With up to 50 dB attenuation, you'll copy stations otherwise masked by heterodynes.

Voice signals aren't degraded because the notch is extremely narrow.

Turn on *automatic* notch and you'll never hear unwanted heterodynes of tuner-uppers.

You can *selectively* remove unwanted tones using the two *manually tunable* notch filters --an MFJ exclusive. Knock out unwanted CW stations while you're on CW.

Adaptive Noise Reduction

Turning on noise reduction silences background noise. It reduces fatigue and makes noisy signals readable.

Noise reduction works in all filter modes and on all random noise -- white noise, static, impulse, ignition noise, power line noise, hiss.

The LMS algorithm gives you up to 20 dB of noise reduction. Noise reduction is adjustable to prevent signal distortion.

Tunable highpass/lowpass filters

For Voice and Data, nothing beats MFJ's exclusive *tunable* highpass/lowpass FIR linear phase "brick wall" filters.

You can tune the lower cutoff frequency 200 to 2200 Hz and the upper cutoff frequency 1400 to 3400 Hz. This lets you create *custom* filters for Voice, Data and other modes.

Signals just 75 Hz away literally disappear -- they are reduced 57 dB!

NEW MFJ-784B Features

- Tunable *Spotting Tone*™ -- an *MFJ invention* -- accurately tunes even the narrowest CW filter
- MFJ's exclusive *Adaptive Tuning*™ -- Center frequency tuning automatically becomes finer as you narrow bandwidth -- makes extremely narrow filters easy-to-use
- Improved automatic notch with *variable* aggressiveness
- New quieter audio amplifier gives you *full* 2½ Watts output
- Speaker ON/OFF button, phones always active
- Accurate easy-to-use input level indicator
- *Filter Talk*™ function sends precise filter settings in Morse code
- Filter automatically bypasses during transmit for monitoring CW sidetone, voice or data by sensing PTT line
- Improved manual notch in the CW mode
- Manual notch and automatic notch can be used simultaneously
- Noise reduction,automatic notch and tunable manual notch can be used in Memory mode
- Adjustable line level output
- More Mark-Space frequencies and baud rates for data filters
- Improved self-test for all digital circuitry, switches and controls

Unlike other filters, speech is not distorted by unequal time delay.

When signals are weak, you can improve copy by removing noisy high and low speech frequencies that contain little information.

On crowded HF bands, you can "slice-off" overlapping SSB signals to improve copy.

You can highpass filter out hum, pulses, rasp and other irritating low frequency noise.

Tunable bandpass filters

Narrow band signals like CW and RTTY jump out of QRM when you switch in MFJ's *exclusive* tunable FIR bandpass filters.

You can tune the center frequency from 300 to 3400 Hz, and vary the bandwidth from 30 Hz to 2100 Hz -- from super-tight CW filters to wide razor-sharp Data filters.

As you narrow the bandwidth, interfering signals drop out, because, just 60 Hz away, they're down by over 47 dB.

You can use narrower bandwidths to fight tough QRM because these linear phase filters don't distort signals with unequal time delays.

Even with the narrowest 30 Hz bandwidth, you'll never have a problem with ringing.

One position gives you two tunable filters you can use together. For example, tune one to mark, one to space and set the bandwidth tight for an incredibly sharp RTTY filter.

15 *pre-set* filters -- use factory set or program your own

You can select from fifteen convenient *pre-set* filters. Use them for SSB, AM, CW, packet, AMTOR, PACTOR, RTTY, SSTV, WeFAX, FAX or any mode you can think of.

If you don't like our pre-set filters, you can program your own -- *an MFJ exclusive!* Save center frequency/ bandwidth, lowpass/highpass cutoffs, auto/manual notch, noise reduction -- all filter settings -- in 10 *programmable* filters.

Only MFJ gives you the best of both worlds -- *tunable* filters to eliminate nearly any QRM and fast convenient *pre-set* filters customized for any mode.

Plus more . . .

A push-button bypasses your filter -- lets you hear the *entire* unfiltered signal.

2½ watt amplifier, volume control, input level control, speaker jack, PTT sense line, line level output. 9½x2½x6 inches.

Plugs between your transceiver or receiver and external speaker or headphones. Use 12 VDC or 110 VAC with MFJ-1315, $14.95.

MFJ-780, $99.95, "brick wall" DSP data filter. Plugs inside MFJ-1278B or MFJ-1278 Multimode Data Controller.

No Matter What ™ guarantee

You get MFJ's famous one year No Matter What™ unconditional guarantee. That means we will repair or replace (at our option) your MFJ-784B no matter what for a full year

Call your dealer for your *best* price

Automatically eliminate heterodynes, reduce noise and QRM on Voice, CW and Data. Call your favorite dealer for your best price and order your MFJ *tunable* DSP filter today!

Free MFJ Catalog

Write or call toll-free . . . 800-647-1800

Nearest Dealer/Orders: 800-647-1800
Technical Help: 800-647-TECH (8324)

•1 year *unconditional* guarantee •30 day money back guarantee (less s/h) on orders from MFJ •***Free*** catalog

MFJ

MFJ ENTERPRISES, INC.
Box 494, Miss. State, MS 39762
(601) 323-5869; 8-4:30 CST, Mon Fri
FAX: (601) 323-6551; **Add $8 s/h**

Prices and specifications subject to change © *1995 MFJ Enterprises, Inc.*

MFJ . . . making quality affordable

GARMIN GPS 45 (TNC COMPATIBLE) **CALL FOR PRICE**
Authorized Garmin Dealer

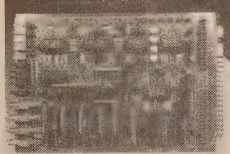
ULTIMETER II WEATHER STATION **$179.00** FREE SHIPPING
Tracks over 20 weather functions (TNC COMPATIBLE)

ULTIMETER 500 WEATHER STATION **$239.00** FREE SHIPPING
Tracks over 55 weather functions

ULTIMETER 2000 WEATHER STATION **$379.00** FREE SHIPPING
Tracks over 100 weather functions

CALL FOR MORE INFO & CATALOG
GIZMOS & ELECTRONICS
1-800-948-8509 VOICE OR FAX

For Repeaters only.



Receiver Voter
4 channel, signal-to-noise

Improve coverage by adding receivers.
- Expandable to 32 channels by adding additional cards
- Continuous voting
- Available as a card or in a rack system
- Can be used with RF links or Telco lines
- Select/disable switches available for manual override
- External disable inputs
- LED indicators of COR and voted signals
- Remote voted indicators pinned out
- Thousands in service
- Starting at $410

Remote Base Interface

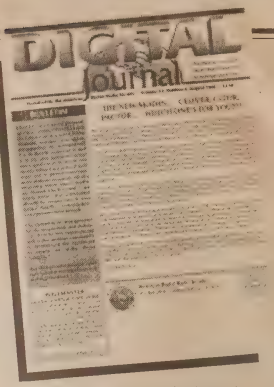
Add a Kenwood frequency agile remote base, now to 9 different repeater controllers.
- Connects and controls a maximum of 4 radios or bands
- Supports 16 Kenwood models
- Connects through the radio's mike jack
- Controls frequency, power, RF power, CTCSS, Shift, etc.
- Expands user function output
- Just plug, program, and play
- $285

For more details or to order, call or write:
Doug Hall Electronics
815 E. Hudson Street - Columbus, Ohio 43211
1-614-261-8871/ Fax 1-614-261-8805

Welcome to the 43rd Annual
Kennehoochee Amateur Radio Club
1996 HAMFEST
Saturday, March 16, 1996
at The Jim Miller Park
(formerly Cobb County Central Park)
MARIETTA, GEORGIA

- Talk-in: 146.28/88 MHz (KARC Repeater)
- Registration: $5 at gate, children under 12 free
- Hours: 9 a.m. to 4 p.m. (Saturday only!)
- Around-the-clock security
- VEC Exams 8:30 a.m. at Milford Elementary School
- More than 10,000 square feet indoor space

For Hamfest Information, contact:
Margaret, KB4QKW, at (404) 977-4405



In the world of digital communications - one publication stands out from the rest!
Get all the latest info on your favorite digital modes, computers, software and more in the ***Digital Journal!***
Published 12 times per year.
$20.00 - U.S., Canada, Mexico
$25.00 - Foreign
To begin your subscription and membership to the American Digital Radio Society (ADRS) send payment (in U.S. Funds ONLY) to:
ADRS • P.O. BOX 2550, Goldenrod, FL 32733-2550

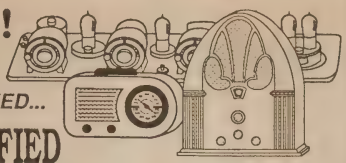
SEND YOUR RADIO TO SCHOOL
Donate Your Radio
516-674-4072
516-674-9600 FAX

WB2JKJ

Radio Club of Junior HS 22
POB 1052
New York, NY 10002

Donate your radio or related gear to an IRS approved charity. Get the tax credit and help a worthy cause. Equipment picked up or shipping arranged. We have been bringing Communication to Education since 1980.

FREE SAMPLE!



IF YOU BUY, SELL, OR COLLECT OLD RADIOS, YOU NEED...

ANTIQUE RADIO CLASSIFIED

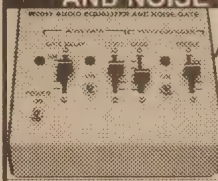
Antique Radio's Largest Monthly Magazine - Over 8000 Subscribers!
Classifieds - Ads for Parts & Services - Articles - Auction Prices
Meet & Flea Market Info - Also: Early TV, Ham Equip., Books, Art Deco, Telegraph, 40's & 50's Radios & More... *Free 20-word ad each month.*

6-Month Trial: $17.95. 1-Year: $34.95 ($51.95 by 1st Class)

A.R.C., P.O. Box 802-A30, Carlisle, MA 01741
Phone: (508) 371-0512 — Fax: (508) 371-7129

MasterCard VISA

W2IHY AUDIO EQUALIZER AND NOISE GATE



KIT - $99.99
ASSEMBLED $129.99
$7.00 S & H
COD's ACCEPTED
(Pwr xfmr & cable to xcvr included)
30 day money back guar.

- O **Say Good Bye** To FAN AND Other Background Noise
- O Make Your Rig Sound **BRAND NEW**

FEATURES
- O Dual band graphic equalizer
- O Adjustable noise gate eliminates background noise
- O Works with existing 8 Pin Mics.
  3 position Mic switch (Icom/Yaesu/Kenwood)
- O AUX. inputs (using RCA jacks) for foot switch and mic input
- O Input voltage 7-14vdc

Mail Orders and Inquiries To:
W2IHY C/O Julius D. Jones
19 Vanessa Lane
Staatsburg, N.Y. (12580)
Tel 1-914-8894933 E-MAIL XUSK45A@PRODIGY.COM

AFFORDABLE AUDIO TECHNOLOGY DESIGNED FOR AMATEUR RADIO USE

BayCom Modem

Low Cost Packet for PC / Clones

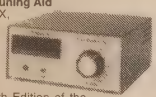
Features: Software-based PACKET that makes your computer emulate a TNC. Modem connects from serial port to RIG. Watchdog timer & reed relay PTT standard. Operates form 12VDC @ 100ma, wall power supply included. Uses crystal controlled 7910 chip, VHF and HF. Lock & TX LED indicators. Free copy of Version 1.40 English software included.

Kit .....$59.95 **Enclosure** $12.50
Assembled & Tested in Box $79.95

WEATHER FAX

Satellite & HF FAX for IBM / Clones

Shown with optional 20 LED Tuning Aid



Features: Processes WEFAX, VIS & IR NOAA, METEOR, APT, 240LPM, 120 LPM & HF WEFAX. Connects to Computer Line Printer Port. The software was created by Dr. Ralph E. Taggart, WB8DAT. For details see Chapter 5, Fifth Edition of the *Weather Satellite Handbook.*

Complete Kit Only $159.95
Assembled & Tested $189.95
Optional 20 LED Tuning Aid.....add $40.00
Compatible with JV Fax 7.0

DigiCom > 64 Modem

Low Cost Packet for the Commodore

Features: Software-based PACKET that makes your computer emulate a TNC. Modem connects from cassette port to RIG. Watchdog timer & reed relay PTT standard. Power derived from Computer. Uses crystal controlled 7910 chip, VHF and HF. Lock, TX & RX LEDs. Free copy of Version 2.03 software included.

Complete Kit Only $49.95
Assembled & Tested $69.95

Smart Battery Charger

JUN 87 QST
BY WARREN DION N1BBH
FOR GEL-CELLS or LEAD ACID BATTERIES.

Features: Precision temperature tracking voltage reference & three mode charging sequence. Standard kit is for 12V @ 1/2 or 1 Amp, user selectable. Can be connected to the battery indefinitely, will not overcharge. Weighs 2 pounds and measures 4"W x 5 1/2" D x 2 1/2"H. Finished enclosure included in kit.

Complete Kit Only $59.95
Assembled & Tested $79.95

MasterCard VISA

CA Residents add 7.75% sales tax. S&H: $5.00 (insured). Foreign orders add 20%.
For more information or catalog; send legal size SASE (55¢) to:

A & A Engineering 2521 W. La Palma #K • Anaheim, CA 92801 • (714) 952-2114
FAX: (714) 952-3280

FALKNER ENTERPRISES

- **NiCad and Gel Cell Battery Sales**
- **Gates 6v 5aH lead acid pack $5.00**
- **Sanyo AA w/tabs 1000 maH $2.00**

Call or write for FREE catalog!

FALKNER ENTERPRISES
P.O. Box 1378
Ottumwa, IA 52501
Phone 515-683-7621
FAX 515-683-7631

HELP OUR YOUTH RADIO CLUB!

The National Christian Conference Center needs ideas, parts, equipment and donations! A non-profit organization, The National Christian Conference Center teaches area youth the fun and challenges of amateur radio - at no charge to them! We need your help to reach more young people. Donations are tax-deductible. For more information, call Dwayne Christensen, KE30R, at (610) 935-9100 or write The National Christian Conference Center, P.O. Box 340, Valley Forge, PA 19481.

International Mission Radio Association Inc.

IMRA

People Helping People

Service to Missioners (all denominations)

Missionary Net • 14.280 MHz, Mon. thru Sat., 1:00-3:00 Eastern Time (1700-1900 Z DT, 1800-2000 Z ST) Annually 20,00 check-ins, 11,000 traffic

Membership • 1,000 amateurs in 40 countries • Directory & bi-monthly newsletter

If monitoring the net, please come in and join us. You will be cordially received.

For further information, write:
Sr. Noreen Perelli, KE2LT
2755 Woodhull Ave.
Bronx, NY 10469

THE MORAL FORUM

ROUNDTABLE OF MORAL AND SPIRTUALLY ORIENTED OPINIONS

MONDAY-FRIDAY 15:00 UTC
14.160±

WRITE OR PHONE
WA9D, ALBERT
1127 WEST HIGHWAY 20
MICHIGAN CITY, IN 46360

(219) 872-6581

BUX ENTERPRISES INC

DIGITAL COMMUNICATIONS

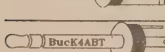
Components & Accessories

Phone: (804) 525-7818 *Evenings* 5 to 9 PM; *Sat* 8 AM to 6 PM
211 LUENBURG EVINGTON, VA 24550

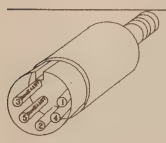
2.5 millimeter "MONO" **# 2505M** **$0.99 ea.**

2.5 millimeter "STEREO" **# 2508S** **$1.99 ea.**

3.5 millimeter "MONO" **# 3506M** **$0.99ea.**

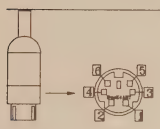


3.5 millimeter "STEREO" **# 3509S** **$1.99 ea.**



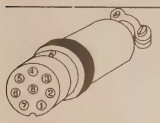
The pre-wired connector for AEA, MFJ, & PacComm TNC's has one end of the shielded 5 conductor cable attached to the 5 pin DIN. The opposite end is free to be connected to the transceiver connector of your choice. The five conductors are color coded to enable easy interfacing.

5 pin DIN (MALE) **# 5505PD** **$1.99 ea.**
With 3 ft shielded, 5 conductor cable attached; **# 5508WD** **$3.99 ea.**



This is the connector now being used on many Kenwood and Azden transceivers as the 9600 baud I/O.

6 pin "MINI" DIN **#6508MD** **$3.99 ea.**

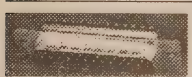


This is the industry standard microphone connector used on many ALINCO, AZDEN, ICOM, KENWOOD, and YAESU transsceivers.

8 pin radio MIC **#8505STD** **$2.49 ea.**

This is the new microphone connector for many ICOM & Yaesu transceivers; e.g.IC281 etc.

8 conductor (RJ45) connector **#8045RJ** **$1.99 ea.**



"D" type connectors available in 9 or 25 pin configuration; MALE or FEMALE.

DB25	**Male**	**$1.49 ea.**
DB25	**Female**	**$1.49 ea.**
DE9	**Male**	**$1.49 ea.**
DE9	**Female**	**$1.49 ea**

I BURN EPROMS FOR THENET X-1J4, PKX-1J4 OR *CONVERS*, NODES. I supply the EPROM. Price is $ 15.00 each (includes Postage & Handling)
USA ORDERS ONLY! *INCLUDE Check or MO with your order. no credit cards.!* **COMPLETE THE FOLLOWING FORM :**

Name: _____ **Callsign:** _____
Address: _____ **Phone:** _____
City: _____ **State:** _____ **Zip :** _____
TNC *make and model* ***AEA PK-96*** **(PKX-1J4 NODE ONLY)** ☐ ***MFJ*** **(NODE or CONVERS)** ☐ ***PacComm*** **(NODE or CONVERS)** ☐
Node Callsign: _____ **SSID** _____ **Alias:(UP TO SIX (6) letters)** _____
PASSWORD : _____

NOTE: It is best to keep the password under 25 letters and NO SPACES. (the password MUST NOT exceed 77 letters,upper case letters are easy to deal with). If you do not supply the password, I will install one for you. I will incorporate either your name or call and possibly both into the password. An example of a CALL/SSID/ALIAS & PASSWORD is shown below:

CALLSIGN = *K4ABT*; SSID =*-7*; ALIAS =*SEDAN*; PASSWORD =*BUCK4ABTATEVINGTONVA*

Each new EPROM is installed in a TNC and tested. A print-out of the test results are included with your new NODE EPROM. Default Parameters and Password are included in the print-out.

BUX ENTERPRISES INC; 211 LUENBURG DRIVE; EVINGTON, VA 24550

10

BOB SIMPLETON'S GUIDE TO TRANSMITTER RANGE

brought to you by *Amateur Radio Trader*

How far away can my signal be heard? That is perhaps the most often asked question in amateur radio. Unfortunately like most questions in this exciting hobby, the answer requires a little work.

We will focus on line of sight propagation on the VHF & UHF bands. These are the most common bands used by both mobile and base operations.

To properly estimate a signals range, you must have a few important figures:

- Frequency / Band
- Transmitter power (in watts)
- Antenna height (from sea level)
- Antenna gain (net after coax loss)

Using this estimator table you should be able to calculate the range of your signal. This table can be used not only for mobile or base operation, repeater owners can also estimate the range of their mountain top repeaters!

Follow the six steps listed above and you should have a fair estimate of your signal range.

These instructions assume a receive signal in the 1 microvolt range. One microvolt is considered a strong signal strength. Most modern radios have a .15 microvolt sensitivity

If you wish to estimate the maximum distance your signal can be heard, you can move up the distance table six lines every time you divide the receive signal by one half. For a .5 micro volt signal, move up six lines. For a .25 microvolt signal, move up 12 lines.

While these figures are just an estimate, you'll find that they are usually reliable.

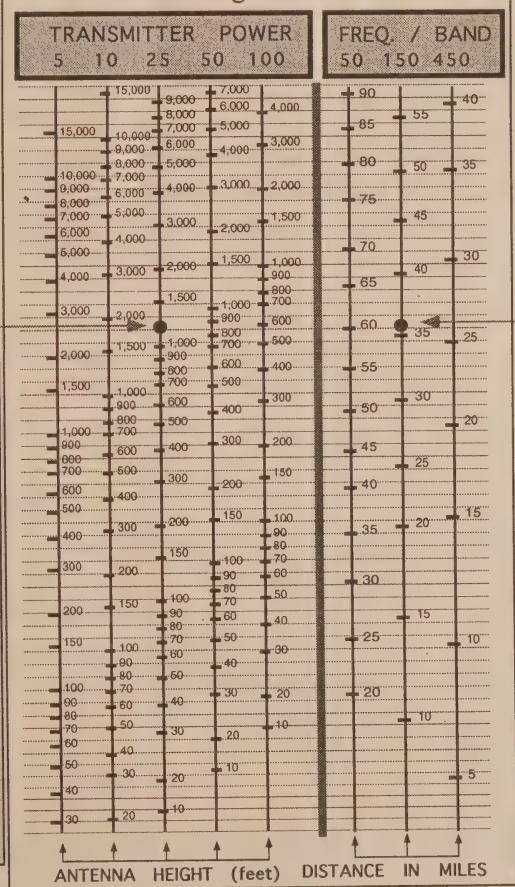
73 and remember to have fun.

Look for "Simpletons Ham Dictionary" in 1996.

The distance your signal will travel can be calculated using the table below. (@ 1 micro-volt RX)

1. Locate the height of your antenna on the proper transmitter power column.
2. Find the line closest to that point.
3. Move up one line for every dB gain of your antenna system.
4. Move across the line to the proper vertical frequency band.
5. The closest number to the line is the distance in miles your signal will travel with a 1 micro-volt receive signal.
6. Move up six lines to calculate the .5 micro volt range.

Transmitter Range Estimator



Example 1,000 Ft Elevation plus 1 line for 1 db gain antenna, using 25 Watts of power

Estimated Transmitter Distance (35 miles) using 150 MHz

Simpleton's Guides © 1995 artsci inc. all rights reserved (818) 843-4080 URL - http://www.earthlink.net/~artsci

Not since the no code license has ham radio seen anything so revolutionary as *AMATEUR RADIO TRADER*...the world's most comprehensive resource for ham operators.

Hundreds of radios, products and services • Current pricing and availability "Shopper" format • 240+ classified headings • Low subscription and ad rates Major credit cards accepted • Free hamfest ads • Last minute ads by phone or fax It's like holding a hamfest in your hands • Call us today at 1-800-774-2623

Subscription Order Form

Call or fax now!

Subscription Rates for one year (circle preferred rate):

Third Class $14.95 (just $.62 per issue)
First Class $34.95 (just $1.46 per issue)

Two issues per month; call or write for other subscription rates.

Complete, clip and mail this form to:

Amateur Radio Trader
410 West 4th Street
P.O. Box 3729
Crossville, TN 38557

All rates subject to change without notice.

For immediate service, call toll-free (USA and Canada) 1-800-774-2623 or fax 1-800-423-9030. Internationally, call 615-484-5137 or fax 615-484-2532. Call today!

Amateur Radio Trader®
The Ham Radio MarketPlace.

Yes! Please start my subscription to **Amateur Radio Trader**, *The* Ham Radio MarketPlace.

( ) Check or money order enclosed

Charge my ( ) MasterCard ( ) VISA ( ) ( )

Credit card #_____Exp. date_____

Name_____

Call Sign_____

Address_____

City_____**State**_____**ZIP**_____

Phone ( ) _____**Fax** ( ) _____

Everything that keeps you in touch

Radios • Antennas • Amplifiers • Computers • Software • Microphones • Headsets • Manuals • Training • Hamfests • Much More!

When You're In The Market, You Go To *The* MarketPlace.

If you're buying or selling, you need Amateur Radio Trader, *The* Ham Radio MarketPlace. It's amateur radio's most complete resource for equipment and other ham products and services.

Advertising Information

Classified Ads

Classified Rates 50 cents per word, min. 20 words for $10.00 (covers two consecutive issues)*
Bold type 80 cents per word, min. 20 words for $16.00 (covers two consecutive issues)*

Photo Ads Add $14.00 *per issue per photo* (min. $28.00) for standard one-inch picture; must be original photograph, no file photos. Identify equipment on back of pictures; up to three photos per ad.

Blind Ads Add $6.00 *per issue* (min. $12.00) when your name and address are to be withheld and ad is to appear with Amateur Radio Trader box number. Foreign country replies add $11.00 *per issue* (min. $22.00). Only bona fide replies forwarded to advertisers on day of receipt. No acknowledgments, and no guaranteed replies.

Terms Payment with order (check or money order, U.S. funds; or MC/VISA/AMEX/DISCOVER); no agency commission. No exceptions other than to municipal, state or federal institutions.

Deadlines Classified closing dates: **28th** (first issue), **12th** (second issue), noon CST. If Saturday, one day earlier; if Sunday, one day later. Last minute copy will not be accepted unless accompanied by remittance to cover publication costs. Publication approximately 5 days after closing time.

Minimum charge covers two consecutive issues; NO LESS CHARGE FOR ONE. Each additional consecutive issue 25 cents (40 cents bold) per word. If ad misses an issue, treat as new order (i.e., **50 cents or **80** cents per word for two issues). Count words in name and address; count initials and numbers as separate words unless considered good style to a group (i.e., 38557, TS-790A, IC271A, etc.). Count words with more than seven characters, hyphenated words, and telephone numbers as two words.*

Send classified ads to:
Amateur Radio Trader
Classified Advertising
P.O. Box 3729
Crossville, TN 38557

Faster service? Call or fax your ad!

Display Ads

Display Rates Rates shown are for one month;* black and white ads, based on the column unit, which is 1" deep and 2-1/4" (13-1/2 picas) wide. Rates cover insertion in two consecutive issues and are NO LESS FOR ONE. Ads can start with first or second issue.

Size	*Rate*	*Size*	*Rate*
1/24 (1 c.u.)	$ 84	2/3 (16 c.u.)	$1,260
1/12 (2 c.u.)	172	Full page (24 c.u.)	1,820
1/8 (3 c.u.)	254	Covers (2&3) (24 c.u.)	1,960
1/6 (4 c.u.)	332	Front cover (12 c.u.)	1,980
1/4 (6 c.u.)	498	Back cover (24 c.u.)	1,990
1/3 (8 c.u.)	658	Center spread (48 c.u.)	3,980
1/2 (12 c.u.)	980	Double page (48 c.u.)	3,600

Photos Add $7.00 for each illustration or photo.

Reverse Ads Add 10%. Partial reverse ads prorated.

Color Spot color and full (process) color are available. Call or write for rates.

Blind Add $18.00 per month. Referral ads add $10.00 per month.

Deadlines Display closing dates: **28th** (first issue), **12th** (second issue), noon CST. If Saturday, one day earlier; if Sunday, one day later.

Six and 12-month advance contracts are available with discounted rates; no rebates. For terms and mechanical requirements, **call or write for complete rate card. Amateur Radio Trader publishes 24 times a year (twice a month), approximately 5 days after closing. The publishers assume no liability for any errors in orders received by telephone, or after the first run on all other orders. The opinions expressed by advertisers are their own and do not necessarily reflect those of Amateur Radio Trader. All rights reserved for publishers to reject any advertising.*

Send display ads to:
Amateur Radio Trader
Display Advertising
410 West 4th Street
P.O. Box 3729
Crossville, TN 38557

USA and Canada **1-800-77-HAM-AD (1-800-774-2623)** • *Fax* **1-800-423-9030**
International **615-484-5137** • *Fax* **615-484-2532**

Send us your classified ad!

We'll make it easy for you! Just fill out the 20 word form below, one word per blank, and send it in with your payment of $10 (minimum charge for 20 words or less). Refer to classified advertising information for terms. Please include your call sign and telephone number when you send in your ad. If you have any questions or need any help, just call us at 1-800-774-2623.

Name_____

Call Sign_____

Address_____

City_____

State_____Zip Code_____

Telephone (____) _____

Please check one:

[ ] Check or money order enclosed

Charge my ( ) MasterCard ( ) VISA

( ) American Express Card ( ) DISCOVER

Credit card #_____

Expiration date_____

Heading: _____

(Refer to the Classified Headings Directory)

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

If your ad is more than 20 words, attach a separate sheet of paper and compute the cost by multiplying the number of words by 50 cents per word (for example, 40 words x 50 cents = $20.00). Remember the charge is for two issues (no less for one). Ads that are not accompanied by remittance (check, money order or credit card) will not be published. Please refer to the advertising information page for assistance.

Mail ad to:

AMATEUR RADIO TRADER - Classified Advertising
P. O. Box 3729 - Crossville, TN 38557
Or fax your ad to us!! 1-800-423-9030

ADVERTISERS INDEX

A & A ENGINEERING 17
A E A INC 3, 63
ADVANCED R F DESIGN 11
ALLTRONICS 47
AMATEUR WHOLESALE CLUB 49
ANTIQUE RADIO CLASSIFIED 17
ARTSCI 4, 51
BLUE RIDGE OFFICE PRODUCTS 14
BUX ENTERPRISES INC 10, 18
CABLE X-PERTS INC 45
CAPITAL DEVICES INC 47
CAPS UNLIMITED 54
CHIPSWITCH 7
COLLINS MONTHLY JOURNAL 45
COMPUTER AIDED TECHNOLOGY, INC 7
CUBEX QUAD ANTENNA CO 47
D C ACE ELECTRONICS INC 5
DAYTON HAMVENTION 8
DEBCO ELECTRONICS 5
DIGITAL JOURNAL 16
DOUG HALL ELECTRONICS 16
E H YOST & CO 47
E S R C 53
ENVIROTRONIC INC 54
FALKNER ENT OF AMERICA INC 17
FUENTEZ SYSTEMS CONCEPTS INC 50
GIZMOS & ELECTRONICS 16
HAL COMMUNICATIONS CORP 12
HAM RADIO & MORE 48
HAMSURE 53
HOOPER ELECTRONIC SUPPLY 4
ICOM 1, 2, 64
INTERNATIONAL ANTENNA CORP 11
JULIUS D JONES 17
KEPRO CIRCUIT SYSTEMS INC 9
L A COMMCENTER 6
L Z ENGINEERING 11
M F J ENTERPRISES INC 13, 15
MOUSER ELECTRONICS 7
NORMS ROTOR SERVICE 57
OLD WEST GRAPHICS 59
PARTS EXPRESS INT'L INC 9
PAS HAM ENTERPRISES 11
PETER DAHL CO INC 7
PHILLIPS-TECH ELECTRONICS 45
R A ENTERPRISES 58
R C K 57
R F ELECTRONICS 52
RADIO ADVENTURES CORP 54
RAYS AMATEUR ELECTRONICS 43
S G C 53
SHACK ATTACK 54, 57
SOUND VALUES 54, 57
TRANSEL TECHNOLOGIES 5
TRINITY GRAPHIC SYSTEMS 60
TUCKER ELECTRONICS 41, 61
U S DIGITAL LTD 7, 53
V I S AMATEUR SUPPLY 45
W5YI GROUP, INC 5
WHEELER APPLIED RESEARCH LAB 9
YUKON MARKETING 45

Amateur Radio Trader's

Toll-Free Number is

1-800-774-2623

Call Now, To Place Your Display or Classified Ad.

ART RADIO CLASSIFICATIONS

ALINCO
5010 ALINCO HF
5011 ALINCO VHF
5012 ALINCO UHF
5013 ALINCO HT
5014 ALINCO (Wanted)
ATLAS
5015 ATLAS HF
5015A ATLAS VHF
5015B ATLAS UHF
5015C ATLAS HT
5015D ATLAS (Wanted)
AZDEN
5016 AZDEN HF
5017 AZDEN VHF
5018 AZDEN UHF
5019 AZDEN HT
5020 AZDEN (Wanted)
CLEGG
5021 CLEGG
5021A CLEGG (Wanted)
COLLINS
5022 COLLINS HF
5023 COLLINS VHF
5024 COLLINS UHF
5025 COLLINS HT
5026 COLLINS (Wanted)
DRAKE
5028 DRAKE HF
5029 DRAKE VHF
5030 DRAKE UHF
5031 DRAKE HT
5032 DRAKE (Wanted)
GALAXY
5033 GALAXY HF
5033A GALAXY VHF
5033B GALAXY UHF
5033C GALAXY HT
5033D GALAXY (Wanted)
GENERAL ELECTRIC
5033M GE HF
5033N GE VHF
5033O GE UHF
5033P GE HT
5033Q GE (Wanted)
GRUNDIG
5033W GRUNDIG
5033X GRUNDIG (Wanted)
HALLICRAFTERS
5034 HALLICRAFTERS HF
5035 HALLICRAFTERS VHF
5036 HALLICRAFTERS UHF
5037 HALLICRAFTERS HT
5038 HALLICRAFTERS (Wanted)
HAMMARLUND
5039 HAMMARLUND
5039A HAMMARLUND (Wanted)
HEATHKIT
5040 HEATHKIT HF
5041 HEATHKIT VHF
5042 HEATHKIT UHF
5043 HEATHKIT HT
5044 HEATHKIT (Wanted)
ICOM
5046 ICOM HF
5047 ICOM VHF
5048 ICOM UHF
5049 ICOM HT
5050 ICOM (Wanted)
JAPAN RADIO
5051 JAPAN RADIO HF
5051A JAPAN RADIO VHF
5051B JAPAN RADIO UHF
5051C JAPAN RADIO HT
5051D JAPAN RADIO (Wanted)
JOHNSON
5052 JOHNSON HF
5053 JOHNSON VHF
5054 JOHNSON UHF
5055 JOHNSON HT
5056 JOHNSON (Wanted)
KDK
5057 KDK
5057A KDK (Wanted)
KENWOOD
5058 KENWOOD HF
5059 KENWOOD VHF
5060 KENWOOD UHF
5061 KENWOOD HT
5062 KENWOOD (Wanted)
MCM
5064 MCM HF
5065 MCM VHF
5066 MCM UHF
5067 MCM HT
5068 MCM (Wanted)
MFJ
5068M MFJ
5068N MFJ (Wanted)
MAGNAVOX
5068R MAGNAVOX (For Sale)
5068S MAGNAVOX (Wanted)
MILITARY
5069 MILITARY
5069A MILITARY (Wanted)
MOTOROLA
5070 MOTOROLA HF
5071 MOTOROLA VHF
5072 MOTOROLA UHF
5073 MOTOROLA HT
5074 MOTOROLA (Wanted)
NATIONAL
5075 NATIONAL
5075A NATIONAL (Wanted)
RADIO SHACK
5076 RADIO SHACK HF
5077 RADIO SHACK VHF
5078 RADIO SHACK UHF
5079 RADIO SHACK HT
5080 RADIO SHACK (Wanted)
RANGER
5082 RANGER HF
5083 RANGER VHF
5084 RANGER UHF
5085 RANGER HT
5086 RANGER (Wanted)
REGENCY
5086M REGENCY
5086N REGENCY (Wanted)
SONY
5087 SONY
5087A SONY (Wanted)
STANDARD
5088 STANDARD HF
5089 STANDARD VHF
5090 STANDARD UHF
5091 STANDARD HT
5092 STANDARD (Wanted)
SWAN
5093 SWAN HF
5093A SWAN VHF
5093B SWAN UHF
5093C SWAN HT
5093D SWAN (Wanted)
TEMPO
5093M TEMPO HF
5093N TEMPO VHF
5093O TEMPO UHF
5093P TEMPO HT
5093Q TEMPO (Wanted)
TEN-TEC
5094 TEN-TEC HF
5095 TEN-TEC VHF
5096 TEN-TEC UHF
5097 TEN-TEC HT
5098 TEN-TEC (Wanted)
UNIDEN
5100 UNIDEN HF
5101 UNIDEN VHF
5102 UNIDEN UHF
5103 UNIDEN HT
5104 UNIDEN (Wanted)
YAESU
5106 YAESU HF
5107 YAESU VHF
5108 YAESU UHF
5109 YAESU HT
5110 YAESU (Wanted)
RADIOS (Other)
5112 RADIOS (Other) HF
5113 RADIOS (Other) VHF
5114 RADIOS (Other) UHF
5115 RADIOS (Other) HT
5116 RADIOS (Other) (Wanted)

OTHER CLASSIFICATIONS

AMPLIFIERS
5120 HF AMPLIFIERS
5121 VHF AMPLIFIERS
5122 UHF AMPLIFIERS
5123 AMPLIFIERS (Wanted)
5123M ANTENNA ACCESSORIES
5124 ANTENNA TUNERS (For Sale)
5125 ANTENNA TUNERS (Wanted)
5126 ANTENNA WIRE
ANTENNAS
5128 BASE ANTENNAS
5128M EMERGENCY PORTABLE ANTENNAS
5129 MOBILE ANTENNAS
5130 ANTENNAS (Wanted)
5132 ANTIQUE RADIOS (For Sale)
5133 ANTIQUE RADIOS (Wanted)
5134 ATV (Fast Scan TV) (For Sale)
5134A ATV (Fast Scan TV) (Wanted)
5135 BATTERIES (For Sale)
5136 BATTERIES (Wanted)
5136M BOOKS (For Sale)
5136N BOOKS (Wanted)
5136S BUSINESS BAND MISC.
5137 BUSINESS OFFERS
5138 CALL BOOKS (For Sale)
5139 CALL BOOKS (Wanted)
5141 CALL SIGN DATABASE
5141M CALL SIGN NOVELTIES
5142 CAPACITORS (For Sale)
5142A CAPACITORS (Wanted)
5143 CLOCKS (For Sale)
5144 CLOCKS (Wanted)
5146 CLUBS
5148 COAX SWITCHES (For Sale)
5149 COAX SWITCHES (Wanted)
5151 COAXIAL CABLE
5152 CODE READERS
5153 COMPUTER PROGRAMS (For Sale)
5154 COMPUTER PROGRAMS (Wanted)
5156 COMPUTERS (For Sale)
5157 COMPUTERS (Wanted)
5159 CONNECTORS (For Sale)
5160 CONNECTORS (Wanted)
5161 CONTESTS
5162 CRYSTALS (For Sale)
5163 CRYSTALS (Wanted)
5165 CW, CODE COURSES/ LICENSE
5167 DSP (Filters) (For Sale)
5168 DSP (Filters) (Wanted)
5168M EME EQUIPMENT (For Sale)
5168N EME EQUIPMENT (Wanted)
5169 EMPLOYMENT
5169M ESTATES (For Sale)
5169N ESTATES (Wanted)
5170 FOR SALE MISCELLANEOUS
5172 FREQUENCY COUNTERS (For Sale)
5173 FREQUENCY COUNTERS (Wanted)
5175 HAMFEST
5177 HEADSETS (For Sale)
5178 HEADSETS (Wanted)
5179 INSURANCE
5180 KEYERS/BUGS/PADDLES (For Sale)
5181 KEYERS/BUGS/PADDLES (Wanted)
5182 KITS (For Sale)
5182A KITS (Wanted)
5183 MAGAZINES (For Sale)
5184 MAGAZINES (Wanted)
5186 MANUALS (For Sale)
5187 MANUALS (Wanted)
5187M MAPS
5188 METAL FABRICATIONS
5189 MICROPHONES (For Sale
5190 MICROPHONES (Wanted)
5191 NAME PLATES/TAGS (For Sale)
5191A NAME PLATES/TAGS (Wanted)
5192 NETS
5192M NEW PRODUCT RELEASES
5193 NEWSLETTERS
5193M ORGANIZATIONS
5194 PACKET EQUIP. (For Sale)
5195 PACKET EQUIP. (Wanted)
5197 PERSONALS
5198 PHONE PATCH (For Sale)
5198A PHONE PATCH (Wanted)
5199 POSITION WANTED
5201 POWER SUPPLIES (For Sale)
5202 POWER SUPPLIES (Wanted)
PREAMPS
5204 HF PREAMPS
5205 VHF PREAMPS
5206 UHF PREAMPS
5207 PREAMPS (Wanted)
5209 QRP EQUIPMENT (For Sale)
5210 QRP EQUIPMENT (Wanted)
5210D QRP REPAIR & ASSEMBLY
5212 QSL CARDS
5212M QSL INFORMATION
5215 RADIO COMPONENTS (For Sale)
5216 RADIO COMPONENTS (Wanted)
5218 RADIO REPAIR
5220 RADIO SCHOOLS
5222 REAL ESTATE (For Sale)
5223 REAL ESTATE (Wanted)
5224 RELAYS (For Sale)
5224A RELAYS (Wanted)
5225 RENTAL (Vacation)
5226 RENTAL (Vacation) (Wanted)
5228 REPEATERS (For Sale)
5229 REPEATERS (Wanted)
5231 ROTATORS (For Sale)
5232 ROTATORS (Wanted)
5234 RTTY/AMTOR/PACTOR (For Sale)
5235 RTTY/AMTOR/PACTOR (Wanted)
5237 SATELLITE EQUIPMENT (For Sale)
5238 SATELLITE EQUIPMENT (Wanted)
5240 SCANNERS (For Sale)
5241 SCANNERS (Wanted)
5243 SHORTWAVE RECEIVERS (For Sale)
5244 SHORTWAVE RECEIVERS (Wanted)
5245M SPEAKERS (For Sale)
5245N SPEAKERS (Wanted)
5246 SPECIAL EVENTS
5248 SSTV (For Sale)
5249 SSTV (Wanted)
5251 SWAP OR TRADE
5252 SWR METERS (For Sale)
5252A SWR METERS (Wanted)
5253 TEST EQUIPMENT (For Sale)
5254 TEST EQUIPMENT (Wanted)
5256 TOWERS (For Sale)
5257 TOWERS (Wanted)
5259 TNC'S (Terminal Node Controllers) (For Sale)
5260 TNC'S (Wanted)
5261 TRANSCEIVERS (For Sale)
5261A TRANSCEIVERS (Wanted)
5261M TRANSLATIONS
5261S TRANSMITTERS (For Sale)
5261T TRANSMITTERS (Wanted)
5262 TRANSVERTERS/ CONVERTERS (For Sale)
5263 TRANSVERTERS/ CONVERTERS (Wanted)
5265 TUBES (For Sale)
5266 TUBES (Wanted)
5267 VE EXAMS
5268 WANTED MISCELLANEOUS
5270 WATT METERS (For Sale)
5270A WATT METERS (Wanted)

ALINCO:

5013 ● ALINCO HT

580T HT, CASE, power cord, charger. All $300.00. HTX 202 HT 2 battery pack charge, like new. $160.00. KD4HWH, 910, 789-7159. f1

5014 ● ALINCO (Wanted)

DR-110, 112, 130, 119 with PLL 2 meter. Steve, KE6YWX. Need manual. 619, 868-6927. f1

ATLAS:

5015 ● ATLAS HF

GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.

ATLAS 180 SSB/CW transceiver 160-20 meters, 180 watts w/AC console power supply. $275.00. D.J. McCann, AC6KU, 916, 933-3986. f2

ATLAS-180, INCLUDES mobile bracket plus AC console, original manuals. Good condition. Call Phil, 309, 444-9736 evenings. f1

ATLAS 210X XCVR sol. st. with Palomar PD-700 digital readout 10-80 mtrs SSB/CW 150W PEP mic 12V PWR cable, manual. All mint. $450.00 firm. Ship prepaid. W6RNE, 24771 Kay Ave., Hayward, CA 94545. mr1

5015D ● ATLAS (Wanted)

WANTED: ATLAS 305 AUX VFO and/or 311 xtal oscillator for the 350XL xcvr, any condition, working or not. WB9WKJ, Randy Schultz, Racine, WI 414, 639-3041 evenings only please. ja2

WANTED: ATLAS MODEL 10X crystal oscillator and Ten-Tec model 283 remote VFO. W4LZY, 540, 371-3296. f2

AZDEN:

5016 ● AZDEN HF

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

AZDEN SALES & SERVICE - Buy, sell or trade new and used Azden. QRV Electronics, 503 Main St./P.O. Box 330, Crawford, GA 30630. Ph/Fax 706, 743-3344. mr2

5017 ● AZDEN VHF

AZDEN PCS-4000, GOOD condition, works great. $250.00. Call Tony at 915, 365-3179 voice and fax. f1

AZDEN PCS-5000 2M FM 20 mem scan ext cov mtg bkt. $250.00. Ranger RC1-2590 10 met all-mode, new, never powered. $350.00. Call Russ, W0OER, Sun-Thu, 706, 625-3526. mr1

5020 ● AZDEN (Wanted)

WANTED: AZDEN PCS 4000 in good working shape. Also wanted good six meter all mode radio. Call Joe at 407, 891-1733. ja2

LOOKING FOR A CLEAN, non-smoker Azden PCS7000H two meter mobile base transceiver in good working condition with or without the power supply. Please include shipping. Bernie, W9SCT, 312, 233-0835. f1

COLLINS:

5022 ● COLLINS HF

COLLINS VIDEO LIBRARY! Repair videos for KWM-2, S/Line, 30S-1, 30L-1. Quantity discounts! HI-RES, 8232 Woodview, Clarkston, MI 48348-4058. 810, 391-6660. f2

FOR SALE: NEW original PJ-068 microphone plugs for Collins S-line/ KWM-2A/ HF-380. Shipped in USA $8 each. KM6UJ, Clint Hancock, 6567 Ashfield Ct., San Jose, CA 95120-4502. f1

KWM-2, WINGED, AC/DC power supplies, mobile mount, mic. All good and working condx. K5ESX, Mike, 214, 202-3044. $500.00 obo. f1

COLLINS 32S-1 transmitter. Must sell. Best offer, no longer need. H/B power supply included. 602, 985-4339, AZ, KJ7OW. f2

GUIDE FOR TUBE type transmitters, transceivers, linears and more. (1922-1970) Over 600 items, 104 manufacturers, 550 pictures, 148 pages. (See display ad) $17.95 including US postage. Sound Values, POB 9, Auburn, CA 95604. f1

COLLINS 75A2-2 complete w/mechanical and xtal filters CW/SSB product detector. $300.00. Andy, 516, 883-7565. mr1

5026 ● COLLINS (Wanted)

WANTED: 75-A4 communications receiver in reasonably good condition. Will pay fair price for same. Also need mechanical filters. Larry Drago, 383 Lincoln Drive, Cheshire, CT 06410. 203, 272-6030. ja2

KWM-2A, KWM-2, 312B-5, 30S-1, 30L-1, 75A-3B or C, 32S-3A, 516F-2. Collector will pay top dollar for quality gear. WW1R, John, 802, 775-6732, eves EST. f1

WANTED: BROKEN COLLINS such as KWM2/2A, 312B-5, 516F-2, 75S-3, 32S-3 plus others. Call 904, 568-1676 days, Merle Crowley, W1GZS. f1

WANTED: LATE MODEL Collins in mint condition only. Will pay going price. Call Lee, 708, 726-1660. mr1

Looking for a particular advertiser? Check our convenient Display Advertisers' Index.

DRAKE:

5028 ● DRAKE HF

SELL DRAKE 2B, mint, w/manual. $80.00. Larry Wilson, KF0N, 144 Brentwood Dr. NE, Cedar Rapids, IA 52402-1506. f1

DRAKE TR-4CW WITH matching MS-4 speaker and Shure 444 desk mike. $300.00. You pay shipping. Phone after 5PM EST. 614, 529-9457. Ask for Dave, KB6KHX. f2

TR-4C AND MS-4 speaker/PS, new MFJ-939E antenna tuner. $325.00. U-ship. Curtis, W4MUO, 1114 Barker Rd., Rome, GA 30165. 706, 295-1672. ja2

DRAKE PHONE PATCH. $30.00. 806, 745-9234. ja2

5032 ● DRAKE (Wanted)

WANTED TO BUY: Drake L-75 linear amplifier. Call 316, 225-3736 D or 316, 225-2961 N, Dennis, WA0WAB. ja2

DRAKE SSR-1 shortwave receiver wanted. WA6NJR, Marc, 909, 698-3922. mr1

GALAXY:

5033 ● GALAXY HF

GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.

GENERAL ELECTRIC:

COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.

5033N ● GENERAL ELECTRIC VHF

LOW-BAND 100W mobiles, Mastr Pro. $45.00. Mastr II 8CH. $55.00. Mastr Exec II 1CH 100W high-band. $50.00. Ranger 80CH 100W high-band. $100.00. MLS 16CH UHF programmable with DTMF. $300.00. Dennis, 417, 998-6517. See also ads under Motorola and Business Band Misc. All prices include postage. Minimum order $50.00. List available by fax. ja2

5033O ● GENERAL ELECTRIC UHF

FOR SALE: GE MASTER II UHF/VHF radios 40/100 watts. JES Communications, 715, 682-2016. ja2

5033Q ● GENERAL ELECTRIC (Wanted)

WANTED: GENERAL Electric FM radios, mobiles, bases, repeaters, cavities, duplexers, and special interface equipment. Also buying Zetron, Motorola, & Uniden LTR. Top dollar paid. We pay freight. Call 800, 443-2929, ask for extension #524. ja2

PROGRAMMING MANUALS for GE Phoenix's VHF and UHF. Will pay any reasonable cost. Peter, WA1VMI, 201, 386-3216; 201, 316-8338. ja2

HALLICRAFTERS:

5034 ● HALLICRAFTERS HF

FOR SALE: HALLICRAFTERS pair, HT-32A TX, SX-101 Mark III receiver, like new, original manuals, in mint condition. $1,500.00. Make offer. Fenton Area Amateur Radio Association. Contact Rick, K8MEG, 810, 694-0520. f1

HALLICRAFTERS RCVR S-40 w/Q multiplier. Best offer. Call evenings. 801, 561-3456. f2

SX-28A SUPER Skyrider receiver S.N. HA-31447 with original manual. Professionally aligned July 1965. Best offer by March 1st. Must pick-up. All correspondence answered. KD9RH, 3342 Briar Ridge Way, Columbus, IN 47203-2703. 812, 372-6594. f2

FOR SALE: Hallicrafters SX-101, very good condition. $220.00. Vance Rayburn, 2718 Homestead Rd., Madison, Wisconsin 53711. 608, 274-3002. f1

5038 ● HALLICRAFTERS (Wanted)

SR-150 XCVR FOR parts, need not work, must be complete. Seeking any other xcvr or amplifier. Carlton Trotman, W3BRX, 718, 948-7266, 232 Sumner Place, Staten Island, NY 10301. f1

5039A ● HAMMARLUND (Wanted)

HQ-180AC, MUST BE good to mint condition. John, N7ZMG, 206, 775-5043. f2

HEATHKIT:

5040 ● HEATHKIT HF

HEATHKIT HW101, needs belts. $175.00. Wanted: Korean vintage military radios and tubes. Call Steve at 913, 267-6753. ja2

HW-101 WITH POWER supply and manuals. You pay shipping. $150.00. Mike, 501, 246-3164. f1

SB-630 STATION MONITOR. $25.00. SB-610 scope. $25.00. Palo model 630 signal generator. $25.00. Old Heathkit receiver GR-54. $25.00. SB-104A manuals. 904, 373-1314. ja2

HEATHKIT HW-10W with manuals, excellent condition. $150.00. Call Brian, 609, 764-1740. ja2

SELL HEATHKIT HW-101, no PS or manual, excellent appearance, including microphone and HD-1410 electronic keyer with manual. Call, WA4DVN, 919, 482-3764. ja2

GUIDE FOR TUBE type transmitters, transceivers, linears and more. (1922-1970) Over 600 items, 104 manufacturers, 550 pictures, 148 pages. (See display ad) $17.95 including US postage. Sound Values, POB 9, Auburn, CA 95604. f1

HEATHKIT HW-100, A-1 cond, manuals, mic, P/Supply, speaker. A real buy. $175.00. I'll ship. 216, 427-2878, N8MRV, Larry, after 4PM. f1

TELEPHONE AREA CODES

Area Code	State Or Other Location
201	New Jersey-Northern
202	Washington, D.C.
203	Connecticut
204	Manitoba
205	Alabama
206	Washington, Seattle
207	Maine
208	Idaho
209	California, Fresno
210	Texas, San Antonio
212	Manhattan, NY
213	California, Los Angeles
214	Texas, Dallas
215	Pennsylvania, Philadelphia
216	Ohio, Cleveland
217	Illinois, Springfield
218	Minnesota, Duluth
219	Indiana, South Bend
301	Maryland
302	Delaware
303	Denver
304	West Virginia
305	Florida, Miami
306	Saskatchewan
307	Wyoming
308	Nebraska, North Platte
309	Illinois, Peoria
310	California
312	Illinois, Chicago
313	Michigan, Detroit
314	Missouri, St. Louis
315	New York, Syracuse
316	Kansas, Wichita
317	Indiana, Indianapolis
318	Louisiana, Shreveport
319	Iowa-Eastern
334	Alabama
360	Western Washington
401	Rhode Island
402	Nebraska, Omaha
403	Alberta
404	Georgia, Atlanta
405	Oklahoma, Oklahoma City
406	Montana
407	Florida
408	California, San Jose
409	Texas
410	Maryland
412	Pennsylvania, Pittsburgh
413	Massachusetts
414	Wisconsin, Milwaukee
415	California, San Francisco
416	Canada, Ontario
417	Missouri, Springfield
418	Quebec
419	Ohio, Toledo
501	Arkansas
502	Kentucky, Western
503	Oregon
504	Louisiana, New Orleans
505	New Mexico
506	New Brunswick
507	Minnesota, Rochester
508	Massachusetts
509	Washington, Eastern
510	California
512	Texas, Austin/ Corpus Christi
513	Ohio, Cincinnati
514	Quebec
515	Iowa-Central
516	New York, Long Island
517	Michigan, Lansing
518	New York, Albany
519	Canada, Ontario
520	Arizona
540	Virginia, Roanoke
601	Mississippi
602	Phoenix
603	New Hampshire
604	Brit. Columbia
605	South Dakota
606	Kentucky, Eastern
607	New York, Binghamton
608	Wisconsin, Madison
609	New Jersey, Trenton
610	Pennsylvania
612	Minnesota, Minneapolis
613	Ontario
614	Ohio, Columbus
615	Tennessee, Nashville
616	Michigan, Grand Rapids
617	Massachusetts, Eastern
618	Illinois, Centralia
619	California, San Diego
630	Illinois
701	North Dakota
702	Nevada
703	Virginia, Arlington
704	North Carolina, Charlotte
705	Ontario
706	North Georgia
707	California, Santa Rosa
708	IL-Chicago suburbs
709	Newfoundland
712	Iowa-Western
713	Texas, Houston
714	California, Orange
715	Wisconsin, Eau Claire
716	New York, Buffalo
717	Pennsylvania-Northeast
718	New York City, NY
719	Colorado-Southern
770	Georgia, Atlanta
801	Utah
802	Vermont
803	South Carolina
804	Virginia, Richmond
805	California Bakersfield
806	Texas, Amarillo
807	Ontario
808	Hawaii
809	Bermuda, Puerto Rico, Virgin Islands & other Caribbean Isls.
810	Michigan, Flint
812	Ind., Not Indianapolis /So. Bend
813	Florida, West Coast
814	Pennsylvania, Altoona
815	Illinois, Rockford
816	Missouri, Kansas City
817	Texas, Ft. Worth
818	California, Pasadena
819	Quebec
901	Tennessee, Memphis
902	Nova Scotia & Prince Edward Island
903	Texas-Northeast
904	Florida, Jacksonville
905	Canada, Ontario
906	Michigan
907	Alaska
908	New Jersey-Central
909	California, So. Calif.
910	Eastern NC
912	Georgia, Savannah
913	Kansas, Topeka
914	New York, White Plains
915	Texas, El Paso
916	California, Sacramento
918	Oklahoma, Tulsa
919	NC, Raleigh
941	Florida
970	N&W Colorado

HEATHKIT HW-5400 transceiver with matching power supply. Also many specialized parts and all manuals. Recently assembled. PLL problem on 10 and 15 meters. $300.00. You ship. Cliff, KBONNC, 303, 465-4624. mr1

UNASSEMBLED HEATHKIT SB-1000 linear. $695.00. You ship. Heath HW-32A, used daily. $75.00. Gene, 312, 582-8640. mr1

HW-16 CW TRANSCEIVER 80, 40, 20 meters. Built-in power supply. Needs ext. VFO or xtal. Mint condition. Price $250.00. 908, 840-0255, KF2ZO. With manual, one crystal. mr1

5044 ● HEATHKIT (Wanted)

WANTED: SB-104A dead or crippies. Write price and shipping. Jeff Welch, 1250 Beverly Ave., Parma, Idaho 83660. Advise condition. ja2

WANTED: HEATHKIT HW-8 or HW-9. Need not be working. Also book for HW-100. N5DGG, Sonny, 8710 Colony Dr., Orange, TX 77632. f2

LOOKING FOR GOOD deal on good/used Heathkit HW-9 QRP transceiver. Manuals must be included. Wayne, K3QJX, 215, 249-0809. ja2

WANTED: DX-100 transmitter and GP-21 battery charger. N5KYE, 405, 373-2228. f1

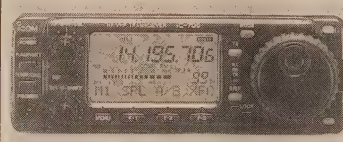
ICOM:

5046 ● ICOM HF

ICOM USERS HEAR WEAK ONES. My installing PIN diodes reduces IMD, internal noise. SASE, Bill Rohrbach, PO Box 2183, Deming, NM 88031-2183. ja1

ICOM HF 761 IC-SM-6 mic, AT-500 ant tuner and all manuals, in good cond. Will ship. $1,250.00. N9QFU, 317, 482-2388. ja2

FOR SALE: ICOM IC-781 and IC-4KL in new condition. Low hours. Will sell them for $4,800.00 each or both for $9,400.00 plus shipping. Call Joe at Ham Radio Equipment/H.R.E., 503, 590-4736. f2



TRUE STOCK REDUCTION sale. At, near & below dealer cost! Hottest HF rig on the market. Icom IC-706. New in factory sealed box, full Icom warranty. $1,199.00 COD, cash + UPS. $1,239.00 bank card + UPS. We have too much inventory, we need cash..our loss, your gain. We have new, demo, trade-in, used items. Hurry! Limited quantity at these prices. Ham, SWL, scanners, 2way radios and accessories. Icom, Sony, Yaesu, Kenwood, AOR, more. Get our list via #10 SASE, BBS, Web page or fax (http://www.access.digex.net/~eeb.html), not phone. Electronic Equipment Bank, 323 Mill Street, Vienna, VA 22180. Ph: 703, 938-3350, fax: 703, 938-6911, BBS: 703, 938-3781. Orders: 800, 368-3270. f1

ICOM 737, LIKE new in excellent condition. Continuous coverage built-in AT. Perfect radio with all manuals. U-ship. $925.00. 615, 484-8220 after 4:30 PM/CST. f1

ICOM 707, LIKE new, used 5 months. $575.00. Martin, WT9U, 217, 442-8613 eves. f1

IC-761. $1,250.00. IC-751. $799.00. IC-728. $675.00. IC-725. $625.00. Ham Station, 800, 729-4373, BBS 812, 424-3614. f1

ICOM HM-12 HAND mic for IC-730, IC-745, IC-751, and other Icom HF transceivers. Brand new, mint, in box. Has 8 PIN connector. $40.00 plus UPS. Dave, W7BER, Tempe, AZ, 602, 820-9111. mr1

5047 ● ICOM VHF

IC-22A WITH MANUAL, excellent condition. $125.00. I ship. 217, 582-2020. ja2

IC-505 6-METER all-mode transceiver with handheld mike. $250.00. Excellent condition. 910, 353-3855. f2

ICOM IC-2340H DUAL-band, less than 1 year, mint condition, original owner, have manual and box. $400.00 shipped. Tom, KD1YQ, 802, 482-2779. ja2

IC-275H, MINT. $1,200.00. Complete with service manual. Call Jeff, WA1TKB, 860, 739-1818. ja2

IC-970A. THE ultimate VHF/UHF all-mode 25 watt 2M/70CM transceiver. Built-in AC P/S. Deluxe satellite or terrestrial rig. New price over $3,000.00. Sell for $2,250.00. 806, 745-9234. ja2

3230 DUAL BAND 2M/70CM 45 watt mobile. $400.00. 806, 745-9234. ja2

IC-25A 144MHZ dual-VFO, recent factory retuned, manuals. $160.00 price shipped. KK5GP, Al, 505, 836-3288. f1

ICOM 275HA ALL-mode 2M transceiver, like new, limited edition. $1,150.00. Also Icom 735 HF transceiver, like new. $900.00. Waymon, 615, 823-6897. mr1

GREAT MOBILE, base or Packet radio. Icom quality gives great performance. IC-25A with power cord, mike and mobile brackets. Original manuals, good condition. $175.00. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

ICOM IC-2700H 2M/70CM dual band with extended transmit and receive. Remote head, remote infared mike, mobile bracket and power cord. All manuals, like new, 50 watts 2 meters, 35 watts 70CM. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

IC-275A. $850.00. IC-820H demonstrator. $1,439.00. Ham Station, 800, 729-4373. f1

5049 ● ICOM HT

ICOM IC-M2 VHF FM Marine Port 2-way radio. Comes with flexible antenna and drop-in charger. $175.00/bo. Call 508, 880-0070, N1JJH. f2

ICOM IC-02AT 2M HT, with new battery, charger, deluxe leather case, manual. $160.00 delivered. Other items available. KD9KP, 901, 642-7441. ja2

IC-24AT 2M/70CM HT with tone, battery, charger. $350.00. 806, 745-9234. ja2

W21AT 144/440 HT with extras. $325.00. HM-75A speaker-mike. $40.00. All like new in original box with manuals. 408, 395-9054 ext. #7, leave message. f1

5050 ● ICOM (Wanted)

WANT GENERAL COVERAGE receiver that covers 30MHz to 1.2GHz. Prefer Icom but will consider other brands. Call Bruce at 818, 963-5325. ja2

ICOM WANTED: AT-500 antenna tuner, IC2KL amplifier with cables for IC-736, SM-20, SM-8, SM-6 mike. FL-100, FL-101, FL-52A, FL-53A filters. Best price please on the above. IC2KL 10M please. 502, 651-2062. f1

ITEMS FOR ICOM 751A frequency controller RC-10 voice synthesizer unit EX-310 repair service manual 751A. Al, WB7AFB, 208, 939-0548. f2

ICOM IC-2SRA HT wanted, in good working condition. Call Paul, N0CJH, 507, 794-6254 after 6:00 PM/CST or write to: Paul Severson, Route 4, Box 8, Sleepy Eye, MN 56085. mr1

WANTED: FM BOARD for Icom IC-551. For sale: Hammarlund HQ-110A, Hallicrafters HT-37 transmitter, Kenwood TS-130S (needs repaired), Heathkit SB-610 monitor scope, MFJ-202B noise bridge. Rich, K3VUT, 412, 461-8542, Pittsburgh, PA. mr1

WANTED: ICOM IC-820H that is satellite ready with 9600 baud mod complete. Must be in like new condition. Will pay top dollar. Must have all accessories and manuals as well as original boxes. 615, 484-8220 after 4:30 PM/CST. f1

WANTED: MINT IC-706, IC-740, IC-745, IC-751A, AT-100, AT-500, PS-15, PS-55, SM-8. Prefer complete station. Must: low price. 909, 985-4732, evenings. f1

JAPAN RADIO:

5051 ● JAPAN RADIO HF

WHAT IS THE BEST bargain in ham radio? How about a classified ad in Amateur Radio Trader? For as little as $10.00 you can reach a nationwide audience of ham radio buyers. Call or Fax today. 800, 774-2623, Fax 800, 423-9030.

JOHNSON:

5052 ● JOHNSON HF

JOHNSON MATCHBOX, very good condx. Asking $100.00. W1SBM, 203, 281-3547. ja2

GUIDE FOR TUBE type transmitters, transceivers, linears and more. (1922-1970) Over 600 items, 104 manufacturers, 550 pictures, 148 pages. (See display ad) $17.95 including US postage. Sound Values, POB 9, Auburn, CA 95604. f1

VALIANT, NEEDS work. $150.00. Navigator, excellent. $175.00. NC-300, good. $250.00. SB-610 scope, mint. $125.00. HM-102 SWR/PWR, great. $50.00. Astatic D-104. $40.00. Clint, KB5ZHT, 1-409, 297-3338, 107 Forest Oaks Lane, Lake Jackson, TX 77566. f1

5053 ● JOHNSON VHF

TWO JOHNSON MESSENGERS Blackface 11 meters. $65.00 each or $100.00 both. Good condition with trans rec xtls easily converted 10 meters. Tektronix 514 oscilloscope with manual, good condition. $100.00. U-ship. 816, 675-2502. f2

5056 ● JOHNSON (Wanted)

WANTED: FRONT panel meter for Johnson Valiant AM transmitter and list of other parts you may have for the Valiant. WOUKI, 218, 365-5438. f2

WANT: JOHNSON Ranger and Hammarlund 170 or 180. Also interested in Kenwood 430. Bob, WB2AGR, 914, 887-5613. f2

JOHNSON US MADE 11-meters. 323"M", 223, 124, anything N.O.S. Must be original/ near mint condition. N0ZBZ, 10000 Chicago, Minneapolis, MN 55420-5009. f1

KDK:

5057 ● KDK

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

KDK REPAIR SPECIALISTS - Also buy used KDK (working or not) or trade on new gear. QRV Electronics, 503 Main St./P.O. Box 330, Crawford, GA 30630. Ph/Fax 706, 743-3344. mr2

KENWOOD:

5058 ● KENWOOD HF

KENWOOD 850SAT WITH DSP100 digital signal processor, TXO, DRU2 digital voice recorder, VS2 voice synthesizer, PS52 p/s, MC60 mike, IF232C computer interface unit. Complete deluxe station, mint. $1875.00. K7MZV, 206, 468-3415. ja2

FACTORY RECONDITIONED Kenwood TS-530S with Astatic 10DA mic and manuals. $500.00. New, MFJ-407C keyer. $50.00. Mosley TA33 with 40 meters. $50.00. K7CPJ, 208, 547-4165. ja2

TS-520 W/SPARE TUBES, DG-5 digital display, SP-520 external speaker, AT-230 antenna tuner, MC-50 desk mic. $600.00 obo. 615, 758-3980 evenings, 615, 871-7964 days. f1

KENWOOD R-2000 receiver, works and looks great. $375.00. Swan Astro 151, 160 thru 15 meters SSB transceiver. Does not work. $145.00. Heath GR-78 shortwave receiver. Works great. $55.00. 414, 887-1592. f1

TS-500 W/FREQ counter. 803, 494-9716. f1

KENWOOD 450S/AT, excellent condition, no scratches or marks, very low hours, looks and works great, box, manuals, mic included. Standard filters. WB8VEQ, $1,025.00 shipped. 606, 297-2153. f1

TS-450S/AT. $925.00. TS-140S. $600.00. TS-520SE. $300.00. All in good condition, box, man. Plus shipping. Harold, 904, 476-8107. ja2

TS-440S/AT, STILL IN original box, used less than 10 hrs. $850.00. 813, 533-1575, days. ja2

TS-940S/AT, 500Hz CW filter, MC-60 mike, excellent condition. $1,295.00. 910, 353-3855. f2

TS-850/450 OWNERS. Is your ALC clamping erratically? $64 cures it forever. Warranted. Warner Radio. See ad under Radio Repair. 815, 825-2522. ja2

TS-820S WITH CW filter, SP-820 Delux speaker and VFO820, original owner, w/manuals, exc condx. $560.00. 609, 586-5067. ja2

KENWOOD TS-530S, internal power supply, manual, 2 filters, MFJ antenna tuner, dipole. $500.00. Tony, 810, 629-0425, Fenton, MI. ja2

KENWOOD TS-690S, 160 thru 6 mtrs, all-mode, new. $1,200.00. TE System 70 CO all-mode 10 in 100 out, new. $275.00. Bird 43. $175.00. AEA PK-88, new. $125.00. WA5MYZ, Charles Henderson, 915, 388-6096. f2

TS-830S WITH YG-455C and YK-88C CW filters plus MC-50 mike. $525.00. "VC", KC0EM, 218, 751-0270. ja2

KENWOOD 440S/AT with YK-88C CW filter, YK-88SN SSB filter, variable speed tuning upgrade, audio monitor upgrade, Kenwood IC-10 computer interface and TU-8 tone unit included. All for $900.00 or best offer. Don, W0RHD, 334, 633-6411. ja2

TS-930S/AT WITH tuner and MC-80 mike, perfect condx, original box, non-smoker. $875.00 plus shipping. W5TNY, 919, 254-7777, 919, 859-1226. ja2

TS-430S 200 WATT transceiver with SSB and CW filters, general coverage receiver .5-30MHz. $650.00. 806, 745-9234. ja2

NEW OCT. 10, TS-870, never used, perfect condition. $2,300.00. KD1VN, 207, 737-2577. f1

TS-850S, BOX, manual, DC cable. $1,150.00. Excellent condition. PS-430 power supply. $165.00. 806, 745-9234. ja2

TS-930S/AT WITH tuner. Very clean. Best radio value for the money. 200 watts all band transceiver, general coverage receiver, built-in AC P/S and antenna tuner. $950.00. 806, 745-9234. ja2

COMPLETE STATION sell out: MC-50 mic, and mobile mic, power supply PS-52HD, Yaesu FT-415 2M w/2 batteries plus NC-50 charger, Call 503, 463-5558. ja2

KENWOOD SM-230 station monitor, brand new in box. $700.00 firm. You ship. Gary, KB5FOQ, 501, 843-2848. f1

TS-520S. $365.00. VFO-520S. $105.00. MC-50. $55.00. All excellent shape, in service. $500.00 for all. I ship. KB9KWL, 414, 427-8760, tangofoxl@aol.com. f1

TS-850S/AT WITH DRU-2 voice memory. $1,500.00. New in box w/manuals. 415, 435-6840, KD6ZVK. f1

TS-520S W/TURNER mic, original manuals, non-smoker, extra clean radio. $400.00 obo or trade. Allen, 616, 462-3817; 313, 654-6148. f1

TS-440S/WAT, PS-50, MC-60, MC-42S. Mint, manual and original shipping boxes. Will take Swan/Cubic 102 or 103 in trade. John, KQ4QT, 704, 252-0693. f1

TS-8205, MINT, IN original box. $500.00. Hank, 706, 567-3354. f1

KENWOOD TS-140S with manuals, mic and Astron RS-20A power supply. Excellent condition. $600.00 plus shipping. Call KK6KC, 714, 472-0776. f1

TS-520, SP-520, VFO-520, mike, good condition, manuals. $350.00. Ten-Tec 247 tuner, ex cond. $50.00. Tim, 601, 534-4211 after 6:00/EST. f1

TS-850S/AT, MINT. Late model. Tuner, digital signal processor. MARS and SSB computer adapted. AIP, high boost 100 memory. Call 809, 773-9118. mr1

IF-232C INTERFACE, never used, orig box. Offer. Bill, 719, 685-5661. mr1

KENWOOD TS-520S in perfect condition. $350.00. plus shipping. 516, 569-5491 until 10:00 PM/EST. mr1

950SDX SWR PATCH including SM-230, scope, mike, in boxes, 2 years old, just aligned by factory, hardly used 100 hours, extra filters. Call Jon, PST 5-8PM, 805, 983-1121. $4,000.00 firm. RS-232. mr1

KENWOOD TS-440S/AT, 500Hz, 2.4KHz filters, PS-50 power supply, mic, like new. $950.00. Original cartons. Will ship. Earl, W4EU, 216, 729-8011. f1

KENWOOD TS-520S, excellent condition with mike and manual. $375.00 obo. 615, 484-8220 after 4:30 PM/CST. U-ship. f1

TS-820S DIGITAL, SP-820, VFO-820, AT-230, MC-50, manuals. All in mint condition. Package only. $650.00. Will ship! WB8ZSI, 616, 669-9364. f1

TS-520S TRANSCEIVER 160-10 meters, excellent condition. $350.00. TS-820S digital 160-10 meters. $400.00. Shipping extra. Don, 352, 475-3306. f1

MINT, JUST LIKE new, TS-850/AT, CW & SSB filters, microphone, both instruction manuals, original boxes. $1,250.00 shipped. Curly, W5HDM, 903, 786-4282. f1

TS-870 DEMO. $2,499.00. TS-850/AT. $1,275.00. TS-50. $799.00. TS-130. $425.00. New TS-140. $875.00. Ham Station, 800, 729-4373, BBS 812, 424-3614. f1

TS-850S/AT, PS-52, SP-31, new service manual, all boxes, manuals, mint condition. $1,425.00. KK, 702, 746-1460. f1

KENWOOD TS-450S/AT, Kenwood desk mike, SSB filter, external speaker, Astron 35-amp P/S, Alliance HD antenna rotator w/wire, low-pass filter 1.8--30MHz, 3-element 10M Yagi antenna. All in original boxes. $1,200.00. Call after 5PM, 801, 547-1166. f1

5059 ● KENWOOD VHF

TR-2600 HT, SPEAKER mike, vinyl case, wall and ST-2 charger, manuals, very clean. $170.00. TR-7950 2M mobile mic, power cord, bracket, manual. $200.00. Prices shipped. Mike, N4MXT, 804, 271-7162. f1

TS-700A 2 METER 10 watt all-mode. $350.00. 806, 745-9234. ja2

TS-790A. $1,499.00. TR-751A. $575.00. New TS-790A. $1,725.00. Ham Station, 800, 729-4373. f1

5060 ● KENWOOD UHF

KENWOOD TR-851A, 430MHz, 25W, all-mode, box, owners and Kenwood service manual. Used 18 months. Very clean. $575.00 delivered. KD9KP, 901, 642-7441. ja2

5061 ● KENWOOD HT

KENWOOD TH-31AT 220MHz HT with wall charger and extra battery. Like new. Will ship. $135.00. obo. Paul, KB2RXS, 201, 722-0769. f1

5062 ● KENWOOD (Wanted)

OWNERS MANUAL FOR TS-830S. Wanted: VFO230, AT230, MC 50 or 60, 60 ft free-standing tower. Will pay shipping. N6XAZ, 916, 872-1240. ja2

A HF SSB THAT covers 80 through 10 for around five to seven hundred dollars. Contact Steve Toburen at 913, 962-5829. f1

WANTED: KENWOOD 732 or 733 dual band mobile. Will also sell or trade 4 watt in 120 watt out 2 meter amp. 417, 889-6142 or horseflyer@aol.com. f1

SEEKING TM-221A, TM-321A, TM-421A in perfect working order. Leave name and number at 614, 432-5714. f1

SP-31 SPEAKER, SM-230 station monitor in good condition wanted. Call anytime 817, 753-4994, Ken, KK5UY. f1

LOOKING FOR DG-5 for Kenwood TS-520S. Must be in excellent condition. Call N3VMS, 301, 589-1308. ja2

WANTED: KENWOOD HF radios. Must have tube finals or solid state. Kid Ham looking for prices around $500.00. Please call Fred between 9AM to 9PM CST. Phone 708, 897-3541. f2

WANT: FM-430 UNIT and YK-88A AM filter for Kenwood TS-430. Call Alce at 504, 222-6652. ja2

WANTED: KENWOOD TS-820S digital display, whole unit or digital display tube. N5ERX, Darrell, 601, 875-0596 or fax 601, 872-2484. f2

WANTED: KENWOOD 830S transceiver at reasonable price. Arthur, 904, 596-1730. f2

WANTED: KENWOOD TS-120S. Call evenings, 512, 778-5406. f1

WANTED: DS1A DC/DC converter for Kenwood 520S. Uniden 2600 10M transceiver. Terry Talliman, HC 66, Box 39, Pottersville, MO 65790. 417, 256-0744. mr1

TS-670 QUAD-BANDER, TS-811A 440MHz all-mode, service manual for TS-660. KO4SG, Forrest, 606, 836-6489. f1

WANTED: KENWOOD DG-5, not working okay if external appearance okay. KB6B, 520, 797-7576. E-Mail: gaughan@noao.edu. f1

WANTED: MINT, TS-50, TS-140, TS-430, TS-440, TS-450, TS-830, AT-50, AT-130, AT-230. Prefer complete station. Must: low price. 909, 985-4732, evenings. f1

MCM:

5064 ● MCM HF

COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.

5068N ● MFJ (Wanted)

WANTED: MFJ-931 artificial RF ground. Call Harold, K2JYK, 303, 428-4363 or write: Harold Schmidt, 9435 Lowell Blvd., Westminster, CO 80030. f1

MILITARY:

5069 ● MILITARY

WHAT IS THE BEST bargain in ham radio? How about a classified ad in Amateur Radio Trader? For as little as $10.00 you can reach a nationwide audience of ham radio buyers. Call or Fax today. 800, 774-2623, Fax 800, 423-9030.

SELL OR TRADE: RT-662/GRC-106. $200.00. AM-3349. $400.00. AB-155 portable 30' antenna mast kit. $75.00. Trade only: SX-28A, S-36, S-36A, many others. List $2.00 or trade for yours. For orders call or fax 417, 998-6517. For inquiries write Dennis, Box 95, Cross Timbers, MO 65634, include stamp. ja2

114 FOOT TOWER, crank-up air lift masts, pole kits, generators, cable, wire, inflatable shelters for emergency. Lots more. 717, 424-5488, fax 717, 424-7630, Stroudsburg, PA. f2

ARC-5 COLLECTION. Receivers and transmitters. Total 16 units with some accessory items. $400.00 for all. 806, 745-9234. ja2

3-GRC106 RADIOS tested with amplifier and accessories. $1,000.00 with P/S. $800.00 without. 1-VRC 524A with whip. $500.00. Call 702, 673-2130. f1

GI RL-39B REELING machine with straps, NIB. $25.00 prepaid 48 states. Postal money order only. Quantity limited. B&B Supply & Service, 45 Carleton Av., Islip Terrace, NY 11752-1518. f1

BC-610 PLATE modulation transformer. $40.00 plus shipping. Also T23/ARC-5 transmitter complete w/tubes 832-A doubler 832A final. $40.00 plus shipping. Call 910, 697-7030, W4DWR, Earl Fox. mr1

MOTOROLA:

5070 ● MOTOROLA HF

WHAT IS THE BEST bargain in ham radio? How about a classified ad in Amateur Radio Trader? For as little as $10.00 you can reach a nationwide audience of ham radio buyers. Call or Fax today. 800, 774-2623, Fax 800, 423-9030.

5071 ● MOTOROLA VHF

MOTOROLA SPECTRAS, Maxtracs, Maratrac, HT 600's, Sabers, MTX 800's, MTX 8000's. VHF, UHF, 800 and 900 radios, new and used. 1-800, 818-6263. f2

MICOR, VHF 8CH 100W. $65.00. UHF 6CH. $75.00. Mocom-70 VHF. $50.00. UHF. $60.00. HT-220 VHF 4CH. $32.00. 1CH. $25.00. MH-70 VHF 2CH. $38.00. Pack R/T mobile repeaters, VHF link. $35.00. Guts alone. $15.00. Dispatcher under-dash VHF 1CH 20W solid state. $30.00. Pagecom low-band pagers with chargers. $25.00. Dennis, 417, 998-6517. See also ads under GE and Business Band Misc. All prices include postage. Minimum order $50.00. List available by fax. ja2

1-HT200, 7-HT220, 4-MT500, 1-N1019B pager, 1-UHF base, 11-Pagecom's, 3-Page Boy II. Make offer, trade for 75A4, 51J4, etc. Jim, 913, 471-4644. f2

5072 ● MOTOROLA UHF

COMPLETE 460MHZ repeater, model C34SY-1101BT, cabinet 22x30x8 100W xcvr, duplexer T1503A, Morse Code identifier CWID-51B, exc. cond. $600.00 plus shipping. Harold, 904, 476-8107. f2

NATIONAL:

5075 ● NATIONAL

GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.

NATIONAL NCL2000 2Kw amp 120/240VAC, good condx with 3 spare tubes. Asking $450.00. W1SBM, 203, 281-3547. ja2

NC-183D WITH SPEAKER and manual, needs work. $145.00. Ranger 2. $95.00. Swan 350 with 117XC power supply plus Turner mic and manual. $135.00 needs work. Please call Gene, 1-541, 342-5488, Eugene, Oregon. ja2

5075A ● NATIONAL (Wanted)

WANTED: NATIONAL receivers in any condition, working or not, especially HRO's. HRO5, HRO500, FBX, FB7, and if possible an A.G.S. unit. Call Larry Drago, 203, 272-6030, 383 Lincoln Drive, Cheshire, CT 06410. ja2

WANTED: NATIONAL HRO500 receiver in working condition. Call Larry Drago, 203, 272-6030, 383 Lincoln Drive, Cheshire, CT 06410. ja2

HRO-400, HRO-600 communications receivers, working or not, dead or alive. Larry Drago, 383 Lincoln Drive, Cheshire, CT 06410. 203, 272-6030. ja2

5080 ● RADIO SHACK (Wanted)

MINT CONDITION, Kenwood TS-430S, FM filter, AT-250, PS-430, SP-430, non-smoker. All boxes and manuals. $1,000.00 plus shipping. Will not split up. Larry, KC5GUW, 501, 985-6460 (AM only).

RANGER:

5082 ● RANGER HF

GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.

5086N ● REGENCY (Wanted)

REPEATERS, NCC-U15RA 450-470MHz, good condition. Otto Supliski, 53 Hayward St., Yonkers, NY 10704. 914, 969-1053, call evenings 7 till 10PM/EST. f2

5089 ● STANDARD VHF

C1208DA 2M FM, 50W, remote mount, control mike, receives AM/FM to 1000MHz, 8 months warranty, mint. $395.00 delivered. KD9KP, 901, 642-7441. ja2

SWAN:

5093 ● SWAN HF

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

SWAN 400 HF, A1 cond+. Also Swan 100MXA, A1 cond. $350.00 each. $650.00 both. Buyer pays shipping cost. 219, 324-8943. ja2

SWAN 350A, USED very little, sick, in box plastic bag. Got a bunch of tubes in boxes. 6-6146A, 2-6148, lots of others, new. Got QST 1950 1970. If interested, send stamped envelope due to my health. Ralph May, K4WPU, 208 Shawnee Trail, Georgetown, KY 40324-1117. f2

5093A ● SWAN VHF

SWAN 250C 6M SSB/CW xcvr, 117XC PS/speaker. $250.00. Siltronix 1011D Commanche 10M SSB. $150.00. Uniden HR-2600 10M. $150.00. All excellent, w/manuals. John, KG9AG, 217, 485-3439 eves, 217, 356-7034 days. mr1

SWAN 2 METER 12 channel radio with built-in power supply. Perfect for Packet station. Good condition. $95.00. 615, 484-8220 after 4:30 PM/CST. U-ship. f1

5093D ● SWAN (Wanted)

SWAN 350A, 350B, or 350C. Must be in good cond. and able to operate. Other Swan HF transceivers also! Call Tony, 352, 365-2274, Florida. ja2

WANTED: SWAN 144-148MC transverter Swan model TV-2B. Call Phil, 507, 685-4650, KB0PYR. f1

WANTED: SWAN POWER supply model 117XC or 117X 117B. Will take two of any of these if in good working order. Harold Cullers, 5116 S. Hwy. 27, Johnson, KS 67855-9005. f2

WANTED: SWAN 250C rig with manual, etc. Also spkr for SX-100 and HQ-170. WOBMT, 402, 887-5201. ja2

TEMPO:

5093M ● TEMPO HF

COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.

TEMPO ONE SSB trans with AC One power supply, includes manual and two final tubes 80 thru 10. $150.00. U-ship. Evenings, KB0MLE, 712, 276-7950. mr1

TEMPO 2020 W/microphone and manual. U-ship. $250.00 or trade for 2M or 6M rig. John, 520, 646-5159. mr1

5093Q ● TEMPO (Wanted)

FMH5 HT. PRICE must be fair. Crystals and acces not important. Must be working. Call 800, 627-1203 X5393 days, 502, 926-2007 eves, Harry. f2

TEN-TEC:

5094 ● TEN-TEC HF

CORSAIR II, CW filter, xlnt cond. $700.00. Call Bill, 310, 542-9899 after 6PM PST. ja2

ARGO QRP-556 W/80,40,30 modules, mint, original boxes and manuals. $375.00. Jim, K0BFT, 612, 446-1424. f1

ARGONAUT 2. $850.00. Argosy. $375.00. Ham Station, 800, 729-4373. f1

UNIDEN:

5100 ● UNIDEN HF

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

YAESU:

5106 ● YAESU HF

YAESU FT-901D, MINT condition, 10-160, all-modes, 6446B tubes, non-smoker. $550.00. 913, 441-8847. f1

FT-840, NEW IN box, won at Hamfest, full factory warranty. $795.00 plus shipping. Call Chuck, W5VJG, 334, 666-2229 evenings, 334, 434-5431 days. f1

YAESU ST-101E, brand new in box. $575.00. FT-767, w/2M module. $1,200.00 +shipping. 607, 652-9530, New York, call anytime. f1

101-EE YAESU HF w/M. $350.00. 417, 466-3161. f1

FT-840 FM INCLUDED, like brand new. $700.00. In original box, manual. Write PO Box 1675, New York, NY 10159-1675. f2

FT-901DM FV-901DM VFO YO-901 scope SP-901 patch hand mic 44-Shure mic. All books, non-smoker, mint. Call James, WB5ORJ, 318, 865-3096. Heathkit HA-14 linear amplifier. $250.00. f2

FOR SALE: YAESU FC-757AT automatic antenna tuner. VGC. $285.00 plus UPS shipping. Dennis, WA0WAB, 316, 225-3736 D, 316, 225-2961 N. ja2

FT-901DM, EXCELLENT condition with MFJ tuner and desk mic. $550.00. 914, 227-6771, eves. f2

FT-101EX, ALL crystals & filters with matching speaker, stock mic. Just had radio realigned and new tubes put in by Yaesu Corp. $300.00. Call 315, 797-2806 anytime AM-PM. f2

YAESU 757GX WITH power supply and 1,000W linear amp. $1,500.00. Rick, 318, 235-1126. ja2

FT-101E 160-10M. Yaesu factory rebuilt. Bills to prove. 12VDC power cord, hand mike Shure 444D. $400.00 firm. 914, 744-2298. ja2

FT-902DM. $600.00. FT-901DM. $500.00. YO-901 scope. $200.00. SP-901P spk/patch. $100.00. FV-101Z VFO. $125.00. MFJ-9498 ant tuner. $75.00. MFJ-784 Super DSP. $175.00. All items excellent working condition. 910, 353-3855. f2

FOR SALE: YAESU FT-840, mint condition. $720.00. W6XM, 619, 459-5527. f2

YAESU FT-890AT, excellent condition, original owner, have manual and box. $900.00 shipped. Tom, KD1YQ, 802, 482-2779. ja2

FT-757GX, EXCELLENT condition with manual, completely gone over at Yaesu factory. $650.00. Call after 6PM, Chas Paul, 615, 484-1949. f2

FT-1000D, SP-5, MD-1C8, Kenwood 950SDX MC-90. All 4 months old, never used. Icom 738 trade for 2 meter all-mode. Call 409, 639-1131, ask for Mark. f2

YAESU FT-890-AT with FP-800 power supply and MD-1C8 desk mic. Like new. Many extras included. $1,000.00. KD4RLY, Phil, 615, 648-4215. f1

FT-101E, ALL factory options. $375.00. Will take FL-2100 in trade. Call Bill, evenings CST, WA0VGD, 319, 455-2113. f1

FT-101ZD 10-160 METERS digital readout and FV-101Z external VFO. $550.00 both. Includes microphone, original manual. Low hours. 201, 909-0338, leave message. f1

FT-1000D 250Hz. $2,950.00. FT-1000. $2,199.00. FT-890AT. $975.00. FT-707. $400.00. FT-757GX. $625.00. FT-747. $599.00. Ham Station, 800, 729-4373, BBS 812, 424-3614. f1

YAESU FT-901DM FOR sale or trade, mint condition. Want Kenwood TS-430S/AT or TS-440S/AT. Will pay difference or take $450.00 for FT-901DM. Don Adams, KB5ZQH, 409, 778-1241 after 5PM/CST or leave message. mr1

YAESU FT-1000, like new with SP/5A speaker, MD1C8 desk mike, two filters and BPF1 dual receive module. $2,350.00 + shipping. Call Dave at 615, 449-4390, KD4CGL. mr1

YAESU FT-990 AC, with 2KC narrow sideband filter, matching speaker, and MD-1 desk mike, mint condition, bought after Dayton last year. Reason for selling, have purchased FT-1000MP. $1,750.00. Timewave 59+ mint. $200.00. Drake MN-2700, mint condition. $275.00. Call 513, 383-2251. f1

5107 ● YAESU VHF

YAESU FT-4700RH DUAL band mobile rig. Has built-in colling fan and MH-15C8 DTMF microphone. Excellent condition with quick release bracket, papers and box. $450.00 obo. I will ship. KC5LUG, 918, 486-4943. f1

FT-726R 2M/70CM satellite xcvr, all modes, good cond, CW filter. $650.00. Bill, 310, 542-9899 after 6PM PST. ja2

FT-726R ALL-MODE. 2 meter and with built-in optional satellite module. Just back from factory checkout. $995.00. 806, 745-9234. ja2

YAESU 736R DUAL band all-mode 2M/70CM, like new in excellent condition. 9600 baud ready, all original manuals and boxes. $1,595.00 firm. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

FT-726R 2M/430. $750.00. FT-726R 2M/430/SU. $875.00. FT-221R. $325.00. Ham Station, 800, 729-4373. f1

5108 ● YAESU UHF

YAESU FT-2700 DUAL band UHF, works great, needs VHF work. Sell or trade for VHF rig. $250.00 with manual. Wayne, 615, 668-9301. mr1

YAESU 736R DUAL band all-mode 2M/70CM, like new in excellent condition. 9600 baud ready, all original manuals and boxes. $1,595.00 firm. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

5109 ● YAESU HT

YAESU FT-11 2M, 5W HT and battery, wall charger and owners manual. Very good condition. $210.00 delivered. KD9KP, 901, 642-7441. ja2

FT-11 MINI 2M HT, with 2 batteries, drop-in charger. $250.00. 806, 745-9234. ja2

FT-470, 2M/70CM, expanded, extra battery, desk charger, soft case, all mint. $250.00 plus UPS. K4OZQ, 502, 443-8058. f1

FT-530 2M/440 WITH soft case 13.8V power supply and battery. Excellent condition. $300.00. Call 408, 551-3146. f1

5110 ● YAESU (Wanted)

TOP DOLLAR FOR Yaesu FT-DX560 or FT-DX460, in good condition. James 910, 867-0540 or write 6809 Mahogany Rd., Fayetteville, NC 28314. ja2

SUB AUDIBLE TONE BOARD for Yaesu handheld transceiver FT-209RH. Mike, K7LYK, 206, 441-3335. ja2

FOR YAESU FT-101ZD: FV-1012, FV-101DM, FL-20012/2A, YO-901, FC-902, DC-DC conv., need working, non-working equip. Teenage Amateur Club info, Honey, WA4KJD, 6975 Dawnhill, Bartlett, TN 38135. Phone 901, 388-1751, fax 901, 763-2179. f1

WANTED: AM UNIT for FT-101 ZD MKIII. Board no. is PB-2040. In working condition and reasonably priced please. KC5LGH, 512, 987-2748. f2

WANTED: YAESU FT-1000MP and FL-7000. Sam, 304, 369-1624. f2

WANTED: YAESU FT-901 accessories, FV-901DM VFO, FTV-901R transverter, YO-901 monitor scope, and FC-901 antenna tuner. Will buy complete station also. Mint condition only! Call Bob, KB2NA, 717, 326-7935. f2

WANTED: MINT FT-10, FT-51, FT-530, FT-2500M, FT-757, FT-767, FT-890, FT-900, FC-757AC. Prefer complete station. Must: low price. 909, 985-4732, evenings. f1

WANTED: 6M MODULE for Yaesu FT-726R. Contact Charlie, N9LYY, 317, 453-9256 or csponaug@walnut.holli.com. mr1

RADIOS (OTHER):

5112 ● RADIOS (OTHER) HF

OLD HARVEY-WELLS TBS-50C transmitter with manual and T-90 transmitter with manual and power supply. $150 each plus shipping. Norm, K0SEJ, Box 213, Hills, MN 56138. 507, 962-3458. ja2

HTX-100. $100.00. Astron RS-10A. $35.00. ERA MKII microreader RTTY/morse. $50.00. MFJ-1225. $40.00. MFJ-1700. $35.00. MFJ-557. $15.00. All excellent condition. Offers accepted. 609, 936-0734. f1

FOR SALE: CX-11 with all mods including 1.8 filter. $2,750.00. Wanted meter only for Bird 43. W0MLY, Box 7, Rippey, Iowa 50235. 515, 436-7718. f2

RAYCAL COMMUNICATIONS rcvrs: 6217-A, 6217-Q, 6337-A, covering 3KHz-31MHz, includes technical manuals. $450.00. Astro Communication Labs SR-219-A, SR-209-6, includes spectrum display 90-300MHz lead, manuals. $375.00. AN/GRC-103, 610-960MHz current production. $325.00. AA1BU, 508, 429-7846. mr1

5113 ● RADIOS (OTHER) VHF

AEA PK-232MBX w/Gateway upgrade. $250.00. Kenwood TR-7800 w/supply (KPS-7). $200.00. RF Applications D-144 deviation meter. $80.00. Astron RS-10A. $35.00. All excellent condition, plus shipping, offers accepted. 609, 936-0734. f1

5115 ● RADIOS (OTHER) HT

$500-$700, TOO MUCH for commercial legal radios? Get Ham and commercial in same radio from <$400.00! 1-800, 755-7169 gets info. W6AXM. tf

2 ALPHANUMERIC UHF HT's. 1 alphanumeric VHF HT. 1 UHF with transcrypt scrambling. Tons of accessories. $2,500.00 all. 415, 467-9669. ja2

5116 ● RADIOS (OTHER) (Wanted)

WANTED: MCMURDO-SILVER Communication receivers, or AM and shortwave chrome chassis radios, I.E. "Master Piece" II, III, IV, V, VI, working or not, in any condition. Call Larry Drago, 203, 272-6030, 383 Lincoln Drive, Cheshire, CT 06410. ja2

WANTED: SLIGHTLY used mobile or base 2M/440 or 6M. Willing to pay for it monthly. Please include antenna in cost. Contact Dave, KB2VVD, 716, 695-8170. f1

WANTED: INEXPENSIVE (under $25) handheld 2 meter radios for use in Papua, New Guinea. Call David at 818, 767-3592 or write SIL, PO Box 43, Ukarumpa EHP 444, Papua, New Guinea. f1

WANTED: INEXPENSIVE rigs for physically and mentally challenged aspiring young Hams. Tube rigs, repairable duds especially appreciated. WD4DKE, 606, 346-9312. f1

I'M BUILDING TWO portable remote/ repeater systems. I need all equipment including some HT's and mobiles which can be MARS/CAP modifiable. Call or fax Dan, 619, 465-1700 ext. 244, fax 619, 466-2819. f2

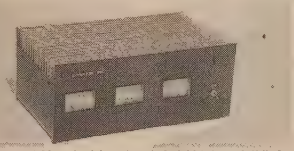
ICOM, KENWOOD, Yaesu 220MHz mobile. I need 2 units. Will pay up to $200 each. 220 amp also. mr1

CENTRAL ELECTRONICS 100V/200V transmitter, dead or alive. Will pay shipping. K6KSG, 719, 942-3515. mr1

AM TRYING TO get on the air. Had heart attack in July '95 and neck surgery in Dec. '95. Cannot afford too much. KA2UFD, 124 Greene Rd., Forest City, NC 28043. mr1

AMPLIFIERS:

5120 ● HF AMPLIFIERS



HF AMP KITS, 2SC2879, 1.8-30MHz, 14VDC, 500W. $250.00. 1KW. $500.00. SASE, Lee, KD4YBC, 197 Chickasaw Lane, Myrtle Beach, SC 29577. tf

AMERITRON AL-80A 1Kw amp 160-10M. Cushcraft R-3 vert. ant. Commodore 128-D PC system. Call 909, 883-2420, after 6PM/PST. f1

14-30MHZ MOBILE AMPS: Palomar Magnum, 2250HD, 2x455, 4-power, 10dB receive amp, -50dB Harmonic suppression, 2 upgrades available. $169.95/ea. 205, 482-2983, Sundance. mr2

B&W LPA-1 WITH home-brew power supply. Runs a pair of 813's. Asking $350.00 plus shipping. Call "Butch", NN2T, 201, 447-9424. f2

TEN-TEC HERCULES 444 and P/S solid state, no tune, power in CW 1000W SSB 1200W, driving power 50W, 2SK. $600.00 plus shipping. 205, 837-2124. ja2

TEXAS STAR 350. $289.95. Texas Star 250. $229.95. Palomar 225. $84.95. Many others to choose from. 216, 872-5550. f2

"FREE 10 METER equipment catalog. 24 hours-a-day by our interactive voicemail/ fax-on-demand system. Listen to or fax down the absolutely lowest prices on 10 meter radios and amplifiers. Lord/Wyatt Communications, 1-718, 789-7329, ext #2 for the Amateur Radio Directory. No fax machine, please send $3.00 for catalog to: LWC, Dept. AART, 147 Halsey St., Brooklyn, NY 11216-2103." ja2

HENRY 2K-4 CONSOLE model 10-80 amplifier. 4200 VDC power supply. New price $2,295.00. Sell $1,250.00. 806, 745-9234. ja2

HEATH SB-200 amplifier 10-80 meters. $350.00. Will ship UPS. 806, 745-9234. ja2

HENRY 2KB LINEAR amp. $775.00. Kenwood TS-530SP HF. $525.00. Both rigs in mint condition. 770, 663-8581, ask for Sonny. ja2

HENRY 2K4 AMP 10-80, excellent condition, located in Salem, OR. 503, 463-5558. ja2

HELP YOUR FELLOW HAMS!!

If you are running a classified ad in ***Amateur Radio Trader,*** *please call us as soon as your item sells so that we can cancel your ad as soon as possible. This will prevent your fellow hams from making costly, unnecessary long-distance calls. Call our toll-free number as soon as you sell your item or as soon as you find what you're looking for - it won't cost you a cent!*

Give us a call - with only a couple of minutes of your time, you can make your fellow ham's life a little easier - and his wallet a little thicker!

1-800-774-2623

Amateur Radio Trader. The Ham Radio MarketPlace.™

HEATH SB-230, 80-10M, 1200PEP, manuals, working fine. $400.00. Hank, 706, 567-3354. f1

DENTRON GLA1000 WITH 10 meters, excellent condition with manual. $295.00 firm. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

AEA LA30. $575.00. Ameritron AL80B. $825.00. BTI LK-2000. $1,200.00. Transworld no tune. $750.00. Ham Station, 800, 729-4373. f1

ALPHA 76A amplifier 10-160 meters, mint condition, without tubes, with manual, shipped to your door Airborne next day. $850.00. Call Vince, 804, 338-7050. f1

5121 ● VHF AMPLIFIERS

2 METER DAIWA amplifier 35 watts FM SSB built-in preamp for low signals, perfect for HT's. $69.00 includes shipping. 412, 348-5912. f2

MOTOROLA 60W 2MTR. Just hook up antenna, HT, 12VDC. With mount and manual. $75.00 guaranteed. Not working. $30.00. Prices include postage. Minimum $50.00 order. Dennis, 417, 998-6517. ja2

TPL PA3-1FFRF 2MTR 8-20 in 200-250 out FM RTRF amp. Will ship. Ed, leave message. $325.00. 407, 826-4615. mr1

5122 ● UHF AMPLIFIERS

UHF AMP 1W IN, 40W out, $35. Heleax 1/2' different lengths. Call. Astron PS, VS-50M, 0-15V, 0-50A, new in box. $175. 510, 432-8088. ja2

5123 ● AMPLIFIERS (Wanted)

WANTED: MARANTZ amplifiers and tuners in any condition. Will pay best price working or not. Larry Drago, 383 Lincoln Drive, Cheshire, CT 06410. 203, 272-6030. ja2

TERRY, KK5RL, IS in need of 3-500 type linear amplifier at a very, very, low cost. 713, 641-4595. f1

WANTED: YAESU FL-7000 linear amplifier (pick-up preferred). Best price pse! N2FWZ, Ron Lumachi, 73 Bay 26th St., Brooklyn, NY 11214. 718, 996-5698. f2

DRAKE L75 OR DENTRON amps covering 160 meters. 317, 647-3912. ja2

AMPLIFIERS WANTED: McIntosh, Marantz, Altec, Western Electric, Heath, Dynaco, etc. Sonny, 405, 737-3312, fax 405, 737-3355. mr1

WANTED: OPTIMATION, Julie Research A.C. amplifier model PA-250, PA-1020, 1015, 1014, 1013, others. Also want home-made tube Hi-Fi amps with high quality input or output transformers. Vernon Vogt, 206, 382-5571. ap1

WANTED: IC-2K solid state amp. Must be in good shape with all cables and manuals. 615, 484-8220 after 4:30 PM/CST. f1

5123M ● ANTENNA ACCESSORIES

FIBERGLASS: COMPLETE line. Round tube, square tube, solid rod. Quad spreaders (all types). Masts, satellite antenna crossbooms. SASE for list. Max-Gain Systems, Inc., 221 Greencrest Court, Marietta, GA 30068-3825. f1

DB PRODUCTS DB4060-WC-A duplexer with cabinet, 4 cavity model. Lists new for $2,090.00. Asking $999.00 obo. Call WB5NZV, Gerald, 817, 387-2314 or KB5UKT, Mike, 817, 591-9065. mr1

5124 ● ANTENNA TUNERS (For Sale)

FOR SALE: MURCH UT-2000A antenna tuner. $50.00. Chess Parker, WA4DRN, 110 Thistle Lane, Fayetteville, GA 30215. 404, 461-3675. ja2

MFJ-949E DELUXE Versa Tuner II, used only 5 hours. $85.00. Brian, 609, 764-1740. ja2

ICOM AT-500. $349.00. Kenwood AT-50. $275.00. JW Miller AT-2500. $550.00. Ham Station, 800, 729-4373. f1

ANTENNAS:

5128 ● BASE ANTENNAS

MARCONI: 80 METERS. $45.95. 160 meters. $52.95. J-Poles: (2M,6M,220,440MHz) kits, portable or fixed station: $16.95-$53.95. Windom: $95.95. G5RV: $50.95. Prices include postage. Antennas are made of 300ohms ladder line, a high quality copper-clad, 18AWG transmitting wire. Jade Products, Inc., PO Box 368, E. Hampstead, NH 03826. http://www.hampstead.k12.nh.us/~djade/. 1-800, JADE-PRO. ja2

QUAD'S 5 BAND 2 element. January special $265.00. Lightning Bolt Antennas, RD 2, Rt. 19, Volant, PA 16156. 412, 530-7396, fax 412, 530-6796. ja2

ANTRON-99, NEW in box. $45.00. Call Brian, 609, 764-1740. ja2

G5RV ANTENNA KIT. Covers 10-80 meters. Complete w/104ft 14ga 7/22 HD wire, 35ft 450 Ohm LL, 2 plastic "Dog Bones" 1 plastic "Dog Bone" w/eye hook, 1 450 Ohm LL to coax adapter, & complete instructions. Works great with or without a tuner. Price: $25.00/ea + $5.00 UPS shipping (continental USA). Send: Visa, MasterCard, or Discover number & exp date, money order or check to: Cable X-Perts, Inc., 113 McHenry Rd. #240, Buffalo Grove, IL 60089-1797. tf

FORBES DUAL BAND 2/meter/70CM Ventenna. Cost $59.00. Only $39.00. Never used, like new. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

BAND MASTER 3 element 2 meter quad antenna with manual, brackets and U bolts. Only $39.95. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

5129 ● MOBILE ANTENNAS

NO LEADS, NO CLIPS, no moving parts 80-10 meters (optional WARC bands) now only $89.95 +shipping. AXM, Inc. 1-800, 755-7169. tf

5130 ● ANTENNAS (Wanted)

WANTED: SCREW DRIVER antenna that covers HF bands, or Bug Catcher antenna that is in good condition. No junk please. 615, 484-8220 after 4:30 PM/CST. f1

5132 ● ANTIQUE RADIOS (For Sale)

ARC-5 COLLECTION. Receivers and transmitters. Total 16 units with some accessory items. $400.00 for all. 806, 745-9234. ja2

MEISSNER EX SIGNAL shifter. $35.00. 806, 745-9234. ja2

PRE WWII GERMAN military radio Bildschrieder. Has 4 tubes 1939. $75.00. Fair condition. N4MM, 703, 837-1340. mr1

HALLICRAFTERS S-20R, mint condition, extra set tubes. National 183-D, needs repair. Yaesu FT-301, FP-301 speaker supply. Police scanner, old ARRL books and QST mags 1940's, 1950's, Shure desk mike. 904, 626-3269. mr1

5133 ● ANTIQUE RADIOS (Wanted)

VINTAGE RADIOS wanted: especially Radiola's, Federals, Kennedys, Paragons, Western Electric, Atwater Kent, crystal sets and telegraph keys. Best prices paid working or not. Larry Drago, 383 Lincoln Drive, Cheshire, CT 06410. 203, 272-6030. ja2

NEEDED: ATWATER KENT type Y power supply. Atwater Kent type E speaker. Hallicrafters pan adapter or Heath pan adapter. Steve, 908, 634-1539. f1

WANTED: HAMMARLUND Comet Pro receiver. Any repairable condition. Will pay up to $300.00. W5PI, 1-919, 975-7518. f1

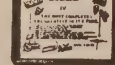
WANTED: KNIGHT KIT Ocean Hopper receiver to recreate my original 1958 station. Bob, K4VHC, 770, 932-5184, Buford, GA. f2

WANT TYPE B FOUR inch black Bakelite National vernier dial and 3:1 audio transformer. Must be good to v. good condition. Frank Smith, WB2URX, 9 Hilltop Lane West, Columbus, NJ 08022. mr1

5135 ● BATTERIES (For Sale)

ZENITH LAPTOP NIMH batteries. For Noteflex computers. Brand new, never used. $30.00 or all five for $100.00. Call Hal, W6WOE, 714, 372-4958 or E-Mail: hrose@netcom.com. f2

5136M ● BOOKS (For Sale)



ULTIMATE MODIFICATION Bible Vol. IV. Most complete modification book in its time. 800 mike wiring, 400 11-meter modulation boost, 200 11-meter PLL mods., 175 Ham radios mods., 25 scanner mods. Only $29.95 (4.75 extra COD fee). 1-800, 256-9895. MC/Visa/Disc. KDC Sound, 17294 FM 3083, Conroe, TX 77302. ja2

REVISED 100 BOOKS ON radio and electronics, some collectors items. Send SASE for list. W6IEG, POB 1244, Oakhurst, CA 93644. ja2

OLD CALLBOOKS/ HANDBOOKS/ engineering reference books, 1948-88. SASE for list. Pair of 1995 callbooks shipped, first c...ck for $36. Please no phone calls. N4SU, Rt 3 Box 100, King, NC 27021. ja2

5136S ● BUSINESS BAND MISC.

MIDLAND SYNTECHS wanted, clean, UHF and wide band VHF BXL1, in good condition. Also low band "C" range with accessories. Call Larry, KI7AX, 818, 919-4612, after 6PM Pacific time. f2

MIDLAND 70-480B, 88CH 110W high-band. $85.00. Midland 7-150B 4CH 5W HT. $35.00. RCA (Repco) 2CH 2.2W HT high-band. $20.00. Regency RPH-410 10CH 5W scan; programmable, with manuals and accessories. $300.00 pair. Dennis, 417, 998-6517. See also ads under Motorola and GE. All prices include postage. Minimum order $50.00. List available by fax. ja2

WANTED: YAESU MODEL FTH-7005 HT with service manual. Also have Heath TX-1, very good. Local pick-up preferred (weight plus 100 lbs.). KG6ZD, 818, 357-3989, CA. mr1

5137 ● BUSINESS OFFERS

HOME AUTOMATION. BECOME a dealer in this fast-growing field. Free information. Call 800, 838-4051. mr2

AMAZING OPPORTUNITY. Make $50,000.00 in sixty days with little effort and no risks. Totally legal. Limited offer. Free info. R. Titus, HC 69, Box 826, Spencer, TN 38585. ja2

OPERATING BUSINESS for sale. Profitable, electronic surplus operated for over 30 years. One story 6500 sq. ft. building plus 5500 sq. ft. parking. NE Philadelphia. Owner retiring. Call Leon Fertik, 5400 Ella St. 19120. Ph/fax 215, 455-2121. f1

FIRE YOUR BOSS! $5,000 monthly recycling scrap gold. Easy! No investment! Free details! Freedom, 300BE, Greenville, NY 12083. ja2

HOMEBASED INC 500 Company expanding throughout the United States and Canada. Needs representation now! Big money and free time for self starters. Very peaceful. Gardner Harris, 1-800, 755-7169. Call now! my1

5141M ● CALL SIGN NOVELTIES

RADIO CLUB BANNERS, magnetic signs, club decals, more! Free catalog. Old West Graphics, 7495 Lemay, A3-355/Dept.-T, Ft. Collins, CO 80524-3251. tf

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

AMATEUR DECALS: Inside window type, size 9"x2¾". Amateur radio in red, your call underneath in black. $5 each. Send to Lloyd E. Opp, 4667 McNeil St., Cincinnati, OH 45212. mr1

5142 ● CAPACITORS (For Sale)

VACUUM VARIABLE capacitors and vacuum relays bought and sold. Send your list, with condition and price. Your SASE gets mine. Allen Bond, 221 Greencrest Court, Marietta, GA 30068-3825. f1

5152 ● CODE READERS

CODE BREAKER. Break the code barrier! New code reader copies Morse as it is heard. Copies RTTY, ASCII. Features large 8 character LED display, auto tracking, speaker, filters, code practice, PC serial port option and more. Free power supply. Model CBF $149.00. Port $29.00. S&H $6, MC/Visa, Microcraft Corporation, Box 513A, Thiensville, WI 53092. Phone 414, 241-8144. ja2

CODE SCANNER. Compact code reader for Morse, RTTY, ASCII. Features 2 line 32 character LCD, auto tracking, speaker, filters, code practice and more. Free power supply. Model CSCAN $179.00. S&H $6, MC/Visa, Microcraft Corporation, Box 513A, Thiensville, WI 53092. Phone 414, 241-8144. ja2

5153 ● COMPUTER PROGRAMS (For Sale)

IBM SHAREWARE $.99 PER disk! Over 900 great virus-free programs. Includes over 200 Ham related programs. Catalog $1.00, refundable with order. Cheap Software, PO Box 693, Agoura Hills, CA 91376-0693. mr1

COMMODORE 64 HAM programs - 8 disk sides, over 200 Ham programs. $16.95. $.32 stamp gets software catalog. Home-Spun Software, Box 1064-RT, Estero, FL 33928. ja2

MORSE CODE COMPUTER interfaces for IBM $49.95, with CW filter $79.95 plus $3 shipping. License study courses. $10ppd. Free Ham and IBM Shareware catalog. Dynamic Electronics, Box 896, Hartselle, AL 35640, 205, 773-2758, fax-773-7295. ja2

KANTRONICS HAMSOFT interface for Commodore 64. New, in original box w/cables & plugs. Best offer. W1WEX, 800, 818-0246. ja2

270 5¼" & 3½" disks, misc. programs, DOS 3.3, DIAG.PROG., enhancement pkg., Home Acct., Ham programs, others. $60.00. 510, 753-0365. f1

5154 ● COMPUTER PROGRAMS (Wanted)

I NEED WINDOWS 3.0 for Zenith 386 laptop. Also owners manual. Don Eastep, KB9KGW, Internet address, don.eastep@accessil.com or 217, 793-6516. f1

5156 ● COMPUTERS (For Sale)

COMPUTER MEMORY EXCHANGE, 3925 Walnut St., Philadelphia, PA 19104. 215, 387-8600. We buy, trade, sell Memory Simm for all computers. mr2

TWO C-64 $250 EACH, include packet board, color or B/W, dual drives, SWL board (one), printer, books, games, also VIC-20 with power only, KC6HXS, 617 G St, Petaluma, CA 94952. ja2

COMMODORE C-64 complete, including 1541 & 1541II drives, Aprotek 1200 modem, 1702 monitor, MPS-803, Tymac printer card, 25+ software, manuals. Western Missouri. 816, 656-3648. ja2

4 C-64 PC's, new and used plus hardware and some software. Call for list. All for $295.00 obo. 1-813, 888-7106. f2

5159 ● CONNECTORS (For Sale)

FREE CATALOG: WHOLESALE prices, no minimum order, our 17th year. Connectors, adaptors, DC wire. Tower Electronics-Green Bay, WI. Mastercard & Visa. We'll even pay for the call! 1-800, 662-3422. mr2

CONNECTORS UNLIMITED: We stock a large selection of US and foreign made connectors, adaptors, tools and accessories. Distributor of Amphenol, RF Industries, Andrew and Gilbert. Other lines also available by special order. Mail orders by credit card, COD or pre-paid. Ask about our "best price" guaranty. Orders, technical assistance and catalog requests by phone 800, 549-5955, fax 603, 641-1179 or E:mail sales@connect.mv.com. tf

5163 ● CRYSTALS (Wanted)

BUILDING QRP RIGS! Need 10 (ten) 8MHz microprocessor xtals! Need them in HC18/U holders! If you have any in your junkbox, call KE4TSA, 919, 781-6270, Michael. f1

2MTR XTALS FOR Drake TR-72 10.7IF. Send your list, both TRX and recv. Need 20 sets of different freq. 540, 342-8489. f1

5165 ● CW, CODE COURSES/ LICENSE

ARRL APPROVED FCC exam samples. Multiple tests each class. ARRL manual required. All questions asked at least once. Test yourself until confident. Each class $15.00 w/instructions. Reply: KA4LSQ, 7606 Buena Vista Ct., Louisville, KY 40219-2947. ap2

SUPERFAST MORSE Code supereasy. Subliminal cassette. $12. Learn Morse Code in 1 hour. Amazing supereasy technique. $12. Both $20. Money-back guarantee. Free catalog: SASE, Bahr-A3, 150 Greenfield, Bloomingdale, IL 60108. ja2

5169N ● ESTATES (Wanted)

ARE YOU AN electronic PackRat? Must you walk narrow "goat trails" between neck high piles of electronic surplus? I buy radio tubes, big old speakers, audio transformers, tube Hi-Fi amps, electronic books, etc. Vernon Vogt, 330 SW 43rd St. #247, Renton, WA 98055. 206, 382-5571. ap1

5170 ● FOR SALE MISCELLANEOUS

EARN MORE MONEY. LEARN electronics from videos. Proven method. Call for free brochure. Guaranteed. 1-800, 678-6113. f2

BUY, SELL, TRADE HAM radio equipment. H.R.E. is an Oregon mountain top Ham radio store. Stock mostly used Ham gear, some new. Consignments welcome. Will buy clean Ham radios and equipment. Sell well checked and bench tested equipment. Trade-in Ham equipment welcome! Wanted: Will pay top dollar for clean: 2-meter mobiles, dual-band 2/440 mobiles, solid-state HF rigs, some tube type HF gear. Call Joe at H.R.E., 1-503, 590-4736. f2

GARMIN 45 HANDHELD GPS. $299.95. Garmin 75 handheld GPS. $499.95. Plus nominal UPS. 6% MI tax. Mariners' Centre, Inc., 2017 Lakeshore Dr., Muskegon, MI 49441. Phone or fax 616, 759-8786. ja2

55' EASY WAY telescoping tower w/gin pole. CDR rotator and control. Beam antenna TA6 triband. 2M antenna. Kenwood TR-7000A. 12V P/S. 50' rotator cable. Dummy load. Balun. 707, 468-7921. ja2

KENWOOD 1000 RECEIVER. $175.00. Yaesu FRG-7 receiver. $150.00. Tempo One HF w/PS. $300.00. All in top condition, non-smoker, etc. Dan, AA6GD, 408, 476-0533. ja2

TURNTABLE, RECORD player, phonograph parts, styli, needles idlers, crystal cartridges rebuilt. 78 players. West-Tech, PO Box 1415A, Sebring, FL 33871. Phone 941, 471-0922. ap1

AUTEK RESEARCH QF-1A SSB/CW AM filter. $52.00. BK Precision #1827 freq counter. $22.00. Heathkit model HM-15. $15.00. E. voice mike 664, not working. $10.00. W3OJX, 602, 972-6503. mr1

QST: 194 ISSUES, 1935 1975. 63 original operators manuals. 100 Popular Electronics. 100 Electronics books. 51 misc. crystals, meters, test equipment, 100 misc. transformers, chokes. Clayton Vedder, PO Box 2823, Durango, CO 81302. mr1

NIKON 35MM CAMERA #8008, auto everything. Pd.-$697.50. Sell $489.00. 28-85 200M lens. Pd.-$425.00. Sell $295.00. Brand new, original cartons. Bob,Sr., 617, 698-9337/nites. mr1

Amateur Radio Trader

The Ham Radio MarketPlace.

YAESU YS-60 SWR/PWR meter. $80.00. MFJ-949D tuner. $75.00. Jetstream JT300D tuner. $110.00. Micronta SWR/FS meter. $20.00. Prices include shipping. Shelton, WA5KOK, 910, 355-0357. ja2

AEA CP-1 w/PS, $25. Heathkit SG-8 R.F. signal generator, $15. N0SAH, 501, 467-5536. ja2

FOR SALE REALISTIC TRC-434 11M base station, keypad channel entry, with noise canc. mic. Has been sitting in corner since I got ham ticket. $100.00 OBO. Iship. Eric, 805, 942-7074 eves. ja2

MICROWAVE RADIO SYSTEM. Complete path. TX/RX both ends. Rockwell (Collins) MW-118 analog 6GHZ common, carrier band. Manuals and complete set of good spare modules. $2,500.00. 540, 646-3734. f1

FANS ETRI MODEL 98XH 4½" 55 Cfm muffin 110 volt 11 watt, new. $5.00 each. Harry Buchin, 21 East Main St., Macungie, PA 18062. Shipping extra. 610, 966-5500. f1

AUTHORIZED DEALER: Cushcraft, Rohn, Telex/Hy-Gain, coax cable and connectors, Pyramid power supplies. Pilot Amateur Radio, Neptune, NJ 07753. Tel 908, 776-2522, fax 908, 776-5185. jn1

TELEPHONE DIAL-1 $ervice, no monthly charges, 6 second billing, free calling cards, free 800# flat rate for res. & bus. Call 516, 952-3416 or send SASE, PO Box 322, Copiaque Long Island, New York 11726. f1

ELECTRONIC SUPERMARKET at surplus prices. 5001 items. Call or write, free list, LSASE, Fertik's, 5400 Ella, Philadelphia, PA 19120. Ph/fax 215, 455-2121. Specializing miniature toggle switches, wholesale prices. f1

MODEL T FORD CAR, 1926, Touring Sedan. Hollywood movie favorite! $5,990.00. Milo Wolff, Manhattan Beach, CA. 310, 379-7855. f2

INTERFACE IBM TO Kenwood. $45.00. 440S chipset. $15.00. Super keyer. $85.00. Call Kathy, WD0BMR, evenings, 605, 652-4665. f2

I USUALLY BRING MY parts and misc. junk to flea mkts. as a seller but I'm tirer of it. Please come see what I have. Give me an offer! 617, 893-3377. f2

ICOM 745 INT PS. $775.00. Yaesu FT-101ZD Mark II. $575.00. Yaesu FV-101DM VFO. $265.00. Ten-Tec Omni A match PS. $275.00. Ten-Tec Omni C station, complete, PS, tuner, VFO, speech processor, matching mike, filters. Will sell separate or as station. Call for price. Collins 75S-3B, excellent. $540.00. Mosley Classic CL-33. $225.00. R-5. $175.00. Hustler mobile system M2 6 resonator ball mount. Kenwood TS-830S. $575.00. TS-530S. $490.00. IC-740. $675.00. Jon, 305, 921-1245. f1

5175 ● HAMFEST

NEW YORK (SETAUKET) Jan. 27. Location: LIE 495 Exit 62N to Nicholls Rd. toward Stony Brook to Route 347E to Old Town Rd. N to Ward Melville High School. Doors open 8AM to 2PM. Adm. $5 at the door. Sponsored by K2TKE, Ward Melville ARC & Student Gov't. TI: K2TKE/R 146.940 (-600KHz) 136.5Hz (4Z PL). Dealers: $20/table & space, $15/space (8'x4') bring own table. Doors open 6:30 AM for dealers. Exams, food. Contact: John Pomfret, W2AAF, 516, 751-8236 or Sharon Rosenfeld (SG), 516, 689-6350. Make checks payable to: Ward Melville Allied Fund. ja2

PENNSYLVANIA (LATROBE) Feb. 11. Chestnut Ridge ARC second annual Latrobe Winterfest Hamfest & Computer Show. 8AM-3PM. Location: Latrobe American Legion, 1811 Ligonier St., Latrobe, PA. Rt. 30 to Rt. 982 N & follow signs. TI: 145.150 (-600). Adm. $2. Inside tables $10. For information and reservations contact: Chris Weiss, K3JDU, 412, 537-6068, Bill Demosky, K3AFS, Carol Demosky, N3UVA, 412, 539-1552. Please send all payments to: CRARC, PO Box 175, Loyalhanna, PA 15661-0175. ja2

FLORIDA (ARCADIA) Feb. 10. Set-up Fri. 3-8PM, Sat. 6AM, public 9AM. Spr: Desoto ARC. Desoto County Fairgrounds, ½ mi. S of Hwy. 70 on US 17. Vendors, tailgating (free with adm.), overnight RV parking (no hookups). TI: 147.075. Adm. $3. Tables: $10. Doug Christ, KN4YT, PO Box 1352, Nocatee, FL 33864. 941, 494-5070. ja2

TELEPHONE AREA CODES

Area Code	State Or Other Location
201	New Jersey-Northern
202	Washington, D.C.
203	Connecticut
204	Manitoba
205	Alabama
206	Washington, Seattle
207	Maine
208	Idaho
209	California. Fresno
210	Texas, San Antonio
212	Manhattan, NY
213	California, Los Angeles
214	Texas, Dallas
215	Pennsylvania, Philadelphia
216	Ohio, Cleveland
217	Illinois, Springfield
218	Minnesota, Duluth
219	Indiana, South Bend
301	Maryland
302	Delaware
303	Denver
304	West Virginia
305	Florida, Miami
306	Saskatchewan
307	Wyoming
308	Nebraska, North Platte
309	Illinois, Peoria
310	California
312	Illinois, Chicago
313	Michigan, Detroit
314	Missouri, St. Louis
315	New York, Syracuse
316	Kansas, Wichita
317	Indiana, Indianapolis
318	Louisiana, Shreveport
319	Iowa-Eastern
334	Alabama
360	Western Washington
401	Rhode Island
402	Nebraska, Omaha
403	Alberta
404	Georgia, Atlanta
405	Oklahoma, Oklahoma City
406	Montana
407	Florida
408	California, San Jose
409	Texas
410	Maryland
412	Pennsylvania, Pittsburgh
413	Massachusetts
414	Wisconsin, Milwaukee
415	California, San Francisco
416	Canada, Ontario
417	Missouri, Springfield
418	Quebec
419	Ohio, Toledo
501	Arkansas
502	Kentucky, Western
503	Oregon
504	Louisiana, New Orleans
505	New Mexico
506	New Brunswick
507	Minnesota, Rochester
508	Massachusetts
509	Washington, Eastern
510	California
512	Texas, Austin/ Corpus Christi
513	Ohio, Cincinnati
514	Quebec
515	Iowa-Central
516	New York, Long Island
517	Michigan, Lansing
518	New York, Albany
519	Canada, Ontario
520	Arizona
540	Virginia, Roanoke
601	Mississippi
602	Phoenix
603	New Hampshire
604	Brit. Columbia
605	South Dakota
606	Kentucky, Eastern
607	New York, Binghamton
608	Wisconsin, Madison
609	New Jersey, Trenton
610	Pennsylvania
612	Minnesota, Minneapolis
613	Ontario
614	Ohio, Columbus
615	Tennessee, Nashville
616	Michigan, Grand Rapids
617	Massachusetts, Eastern
618	Illinois, Centralia
619	California, San Diego
630	Illinois
701	North Dakota
702	Nevada
703	Virginia, Arlington
704	North Carolina, Charlotte
705	Ontario
706	North Georgia
707	California, Santa Rosa
708	IL-Chicago suburbs
709	Newfoundland
712	Iowa-Western
713	Texas, Houston
714	California, Orange
715	Wisconsin, Eau Claire
716	New York, Buffalo
717	Pennsylvania-Northeast
718	New York City, NY
719	Colorado-Southern
770	Georgia, Atlanta
801	Utah
802	Vermont
803	South Carolina
804	Virginia, Richmond
805	California Bakersfield
806	Texas, Amarillo
807	Ontario
808	Hawaii
809	Bermuda, Puerto Rico, Virgin Islands & other Caribbean Isls.
810	Michigan, Flint
812	Ind., Not Indianapolis /So. Bend
813	Florida, West Coast
814	Pennsylvania, Altoona
815	Illinois, Rockford
816	Missouri, Kansas City
817	Texas, Ft. Worth
818	California, Pasadena
819	Quebec
901	Tennessee, Memphis
902	Nova Scotia & Prince Edward Island
903	Texas-Northeast
904	Florida, Jacksonville
905	Canada, Ontario
906	Michigan
907	Alaska
908	New Jersey-Central
909	California, So. Calif.
910	Eastern NC
912	Georgia, Savannah
913	Kansas, Topeka
914	New York, White Plains
915	Texas, El Paso
916	California, Sacramento
918	Oklahoma, Tulsa
919	NC, Raleigh
941	Florida
970	N&W Colorado

TENNESSEE (GALLATIN) The Tennessee Valley Amateur Radio Network will hold its sixth annual Hamfest at the Gallatin Civic Center on Saturday, Jan. 27th. Set-up will be from 4PM to 9PM on Friday and from 5AM to 8AM on Saturday. Doors will be open to the public from 8AM till 4PM. Adm. $5 for 16 yrs. and older. Tables: $10, includes 1 adm. VE testing by pre-registration only. Please send a completed 610, copy of lic or cert of successful comp. to Ronnie Gilley, 512 Hillside Dr., Gallatin, TN 37066. Fee collected at test. SASE for registration confirmation. Food, free parking near door, limited set-up help. Tailgating available in limited space. Will be available on a limited basis. TI: 145.13(-) 444.450 + tone 107.2 and 147.30-Fri. 3P-9P & Sat. 5A-2P. For Hamfest information and table reservations contact Bill Ferrell, N4SSB, 1032 Hidden Woods Trail, Gallatin, TN 37066. Ph: 615, 452-7246 and leave message. ja2

MINNESOTA (BLAINE) 15th annual Midwinter Madness at National Sports Center, Blaine, MN. Exit #32 off 35W. Exposition 7:30 AM to 2:30 PM, Sat., Feb. 10. Adm. $7 at the door. Super buys on computers, software, hardware, components, peripherals, amateur radio equipment. Over 40 commercial vendors; over 300 flea market tables selling used equipment, over 4500 people anticipated. Info: RARC, PO Box 22613, Robbinsdale, MN 55422, or tel. 612, 537-1722. ja2

OREGON (RICKREAL) The Salem Repeater Association and Oregon Coast Emergency Repeater Inc. are proud to present the 1996 Salem HamFair February 17, 1996, at the Polk County Fairgrounds in Rickreal, Oregon. Time: 9AM to 4PM. Swap table set-up 6 to 9PM, Friday night, February 16th and 7AM Saturday morning. Self contained RV spaces available. TI: 146.86 repeater. Features include flea market, dealers, and exhibits. For more information contact: Evan Burroughs, N7IFJ, 503, 585-5924. f1

OHIO (LORAIN) Northern Ohio ARS (NOARS) is hosting Winterfest 96 on Sunday, Feb. 4, 1996, from 8AM to 2PM (vendor set-up at 7AM) at Gargus Hall located on N Ridge Rd. just west of Rt. 57 in Lorain, Ohio. (N Ridge Rd. is the extension of Rt. 254, AKA, Detroit Rd., west of Rt. 57). Adm. $4. Tables: $10-8ft, $8-6ft. (does not include entrance ticket). For tables call Stan Zupan, AA8IN, 216, 933-4261 before 9:30 PM. ja2

CANADA (BURNABY BC) Feb. 25. Western Canada's largest annual Ham Radio Flea Market. Location: New Westminster Armoury, 6th St. & Queens Ave., New Westminster, BC. Buyers: 10AM-2PM. Sellers: 9AM. Adm. $3. Tables: $12 each, plus $3 adm. (Helpers must pay adm. fee; one helper per table.) Parking: adjacent City Hall parking lot. Features: door prizes, cash draws, commercial exhibits, QSL Bureau, snack bar. TI: 145.350 input DN 600. For tables and information call between 7-9PM: Harry, VE7HNC, 530-3962, Graham, VE7ABC, 530-1907, Rick, VE7HRL, 464-0766. f1

VERMONT (MILTON) The Radio Amateurs of Northern Vermont is sponsoring the Northern Vermont Winter Hamfest on Feb. 24, from 8AM until 3PM at Milton High School, Route 7 in Milton, 5 miles North of I-89 Exit 17. Features include flea market, auction, computers, dealers, book sale, forums, exhibits, and refreshments. VE exams will be given at 9 and 2PM, commercial exams at 2PM. Adm. $3, free for under 18 years. Tables are free, while they last. Call for large set-ups. TI: 145.15 repeat. Contact, WB2JSJ, at 802, 879-6589 or write RANV, Box 9392, South Burlington, VT 05407-9392. f1

MASSACHUSETTS (MARLBOROUGH) Algonquin Amateur Radio Club flea market, Sat., Feb. 17, at the Marlborough Middle School, Bolton St., Marlborough, MA. Doors open at 10:00, adm. charge $2. 6 ft. tables or 10 ft. spaces, $12 before Feb. 10, $15 after Feb. 10. For further information, Anne Weldon, KA1PON, PO Box 258, Marlborough, MA 01752, or before 9PM, call 508, 481-4988. f1

GEORGIA (COMER) March 2, 9AM to 3PM. First annual Bubba Hamfest will be held at the Madison County Fairgrounds, 1/2 mile South of Comer, GA on Hwy. 22. TI: 147.30+. Sponsored by the NE Georgia Bubba Net. Dealers indoors + covered flea market. VE testing, good food. Set-up/ camping available Friday night, all hookups - $6. For reservations or more information contact Dan Daniel, AE4HS, 152 Windfall Dr., Winterville, GA 30683. 706, 742-2777. f2

FLORIDA (LAKE WORTH) March 9. West Palm Beach Amateur Radio Club semi-annual Free Flea will be held in John Prince Park, Lake Worth, FL at Mound Circle. 8AM-2PM. Free to buyers and free to sellers. TI: 147.135 +600, alternative repeater 146.670 -600. For more information contact: Marvin Kaskawits, KD2CK@nB4VOL, 407, 683-2930, p001471b@pbfreenet.seflin.lib.fl.us. f2

OHIO (CLEVELAND) Mar. 3. The Cleveland Winterfest will be at the Cuyahoga County Fairgrounds, Berea, Ohio, approx. 1 mile West of I-71 and Bagley Rd. Interchange, South 1/4 mile on Eastland Rd. Local hotels. Doors open 8AM-2PM, early set-up 6AM. VE exams will be administered early, must have proper ID's, copy of license, and $6.07 check to ARRL/VEC. DXCC/WAS QSL checking before 10AM. TI: 146.73. Adm. $5 at gate. Adv. tables $15 (includes adm.), extra tables $12 until mid-Feb. For more information write: Don Ritchie, K8ZGW, Hamfest Association of Cleveland, PO Box 81252, Cleveland, OH 44181-0252. Telephone: 216, 999-7388 in Cleveland, elsewhere 800, CLE-FEST and leave message on pager. f2

NEW JERSEY (ABSECON) March 2. The Shore Points Amateur Radio Club will sponsor its 14th annual Hamfest, "Springfest '96", at Holy Spirit High School, located on Route 9, 3/4 mile South of Route 30. Doors open to sellers at 7AM, the public at 9AM. Features include 8,000 sq. ft. heated indoor selling area, outdoor tailgating (weather permitting), free parking, and refreshments. Adm. $5 (non-Ham XYL's and children free). Indoor tables (provided, limited AC available) are $7 per 8-foot section. Reservations will be accepted. Outdoor tailgating (weather permitting) is $5 per painted parking space. (First come, first served, no reservations accepted). TI: 146.385/.985. For more information, contact SPARC, PO Box 142, Absecon, NJ 08201. f2

MAINE (LEWISTON) March 1 & 2. 17th annual Andy Hamfest and Computer Fair will be held at Ramada Conference Center, 490 Pleasant St., Lewiston, ME. Exit 13 Maine Turnpike. Open Friday 5:30 PM and Saturday 8AM. Break the mid-winter doldrums. Come and enjoy the first and largest indoor Hamfest of 1996 in Northern New England. Scheduled Friday evening will be forums and exhibitors. Saturday exhibitors and vendors will display their goods. Available will be new and used radio and electronic gear including computers. Amateur Radio exams will begin at noon. Special room rates are being offered by the Ramada Inn, $49.00 (plus tax) per day, single or double. Call 207, 784-2331 for reservations and mention the Hamfest and Computer Fair. For additional information call or fax to: Bill Woodhead, N1KAT, President, C/O AARC, Inc., PO Box 1, Auburn, ME 04212-0001. 207, 782-4862, fax 207, 784-0222. Reservations: Contact Ivan Lazure, N1OXA, 207, 784-0350. f2

VIRGINIA (VIENNA) Feb. 25. The Vienna Wireless Society will hold its 20th annual Winterfest on February 25th at the Vienna Community Center in Vienna. Indoor area opens at 7:30 AM. Frostbite Tailgate area opens at 6AM on a first come basis. Adm. $5, XYL free. Tailgate space is $10 including admission. ARRL VEC tests are on Feb. 24th only (the day before Winterfest). TI: 146.91(-) and 146.685(-). For information, contact Paul, AB4CY, at 703, 560-2779. f1

NEBRASKA (KEARNEY) Feb. 10. 1996 ARRL Nebraska State Hamfest and Flea Market. 8:30 AM to 5:30 PM. Buffalo County Exhibitors Bldg., Buffalo County Fairground, Kearney, NE. Adm. $2, youth 12 or under free. Club repeater 146.625 open auto patch. Tables: $5 each. FCC license testing will be held at 10AM, Saturday, Feb. 10. Please contact Mike Osterberg, WB0WVZ, nlt February 3, to make arrangements for your testing needs. Questions or assistance of any kind contact: Jerry, WOPXD, 308, 237-7539. f1

COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.

FLORIDA (MIAMI) Feb. 3-4. The Southern Florida Section Convention ("The Tropical Hamboree and ARRL Hamfest of Americas"), sponsored by the Dade Radio Club of Miami, will be held at the Youth Fair Expo Center, SW 112th Ave. and Coral Way. Doors are open Sat. 9AM to 5PM, Sun. 9AM to 4PM. Features include forums, demos, commercial exhibits, 1000 swap tables, tech talks, organizational meetings, hourly tours of the National Hurricane Center, VE sess (exams Sun. 9AM and 2PM). TI: 146.925, 444.525, 146.505 (info loop). Adm. $5 in adv., $7 at the door. Contact Evelyn Gauzens, W4WYR, 2780 NW 3rd St., Miami, FL 33125. 305, 642-4139, fax 305, 642-1648, E-Mail: edg@elink.net. ja2

FLORIDA (PENSACOLA) Feb. 10. 9AM to 4PM. Spr: Pensacola Area Hams Assn. Bayfront Auditorium, Exit 4 (I-110) S from I-10 to Cervantes St., right on Cervantes to Palafox St. (1 block, 1st light), turn left on Palafox St. (Palafox dead-ends at Hamfest site). Flea market, vendors (must have adm. ticket), dealers, forums, refreshments. TI: 146.76. Adm. adv. $4, door $5. Tables: $10. Bill Behrends, WA4YRN, 904, 476-8537. ja2

ILLINOIS (VILLA PARK) Jan. 28. 8AM to 2PM. Spr: Wheaton Community Radio Amateurs. Odeum Expo Center. TI: 145.39. Adm. adv. $6, door $8. WCRA, PO Box QSL, Wheaton, IL 60189. 708, 545-9950. ja2

INDIANA (LAPORTE) Feb. 24. Dealer set-up 6AM, public 8AM to 1PM. Spr: LaPorte ARC. LaPorte Civic Auditorium. Mid-Winter "Cabin Fever" Hamfest. TI: 146.61 (131.8Hz), 146.52. LaPorte ARC, PO Box 30, LaPorte, IN 46350. f1

MARYLAND (ODENTON) Jan. 28. 8AM to 2PM. Spr: Maryland Mobileers ARC. Odenton Volunteer Fire Dept. Hall, 1425 Annapolis Rd. (Rt. 175), 9 mi. E of I-95. Indoor flea market (no tailgating), VE sess. (free, pre-reg. with Jerry Gavin, NU3D, 410, 761-1423), free parking, refreshments. TI: 146.805. Adm. $3. Tables: adv. $7 (table and 1 adm.). Tom Wilkison, KA3OMU, 592 Eason Dr., Severn, MD 21144. 410, 969-2639 eves. ja2

MISSOURI (ST. CHARLES) Jan. 27. 8AM to 2PM. Spr: St. Louis Repeater. St. Charles Expo Hall, I-70 and 5th St. AR and Computer Expo, commercial dealers, flea market, VE sess., handicapped accessible, free parking, refreshments. TI: 146.94, 442.1. Adm. $3. St. Louis Repeater, PO Box 50202, St. Louis, MO 63105. 314, 567-8777 (commercial/ flea market), or fax 314, 353-7373. ja2

SOUTH CAROLINA (NORTH CHARLESTON) Feb. 10. Set-up Fri. 5PM, public Sat. 8:30 AM to 4PM. Spr: Charleston ARS. Stall HS, near I-26 and Ashley Phosphate Rd. Hamfest/ Computer Show, tailgating (allowed only after all tables sold), VE sess. (noon, walk-ins only, bring original and copy of your license, any CSCEs, and 2 IDs, 1 with photo; call Ed, KC4OOZ, 803, 871-4368, or Gary, AC4PL, 803, 766-3440), refreshments. TI: WA4USN linked repeater system 146.79 aboard the USS Yorktown, 145.25, 147.18, 146.835, 147.27, 146.76, 147.3, 443.8, 442.3, 444.3. Adm. $5, under 12 free. Tables: adv. $8, door $10. Jenny Myers, WA4NGV, 2630 Dellwood Ave., Charleston, SC 29405-6814. 803, 747-2324. f1

TENNESSEE (KNOXVILLE) Feb. 3. Set-up Fri. 4-9PM, Sat. 5-8AM, public 8AM to 4PM. Spr: Shriners of Kerbela AR Service. Kerbela Shrine Temple. Tailgating ($3 plus adm.), VE sess. (reg. until 9:30 AM, mail completed Form 610 with check for $6.05 payable to WCARS-VEC Ray Adams, N4BAQ, 5833 Clinton Hwy., Suite 203, Knoxville, TN 37912-2500. 423, 688-7771). TI: 145.43. Adm. $4. Tables: $8 (plus adm.). Paul Baird, KY4A, 1500 Coulter Shoals Cir., Lenoir City, TN 37772. 423, 986-9562. ja2

TEXAS (AMARILLO) Feb. 3. Set-up Fri. eve., public Sat. 8AM to 5PM. Spr: Potter County ARES. National Guard Armory, 2904 Tee Anchor Blvd. Flea market, SKYWARN spotters school, ATV, OSCAR, APRS, VHF weak signal demonstrations. TI: 146.92. Adm. free. Tables: indoor $5 (outdoor flea market area free). Ben Pollard, WS5R, PO Box 5378, Amarillo, TX 79117. 806, 381-8810 or E-Mail: benws5r@aol.com. ja2

OKLAHOMA (TULSA) March 23 & 24. ARRL Oklahoma Section Convention with special guest Roy Neal, K6DUE. Located in the Maxwell Convention Center, Downtown Tulsa, Exhibit Hall A. (Near the corner of W Seventh St. and S Houston Ave.) Adm. $8 in adv. or $10 at the door. Flea market spaces $6 adv. or $8 at the door. Limit four contiguous spaces at this price. Banquet: $20. Roy Neal, K6DUE, keynote speaker. Dealer booths $45 each. 100 sq. ft., with two eight foot tables, pipe and draping, adm. for two persons included. Dealers and flea market exhibitors may set-up Fri., March 22, from 1-10PM (not open to public on Friday). Call Merlin Griffin, WB5OSM, 918, 272-3081 (leave a msg.) or E-Mail: 73564.1063@compuserve.com. TI: 145.27(-) and 443.750. mr1

MASSACHUSETTS (WESTBORO) March 16. Location: High School, 90 W Main St., Westboro, MA. Sponsor: Minuteman Repeater Association (MMRA). Set-up: 8-10AM. Buyers: 10AM-2PM. Adm. $2. TI: 146.61-, 146.82-, 449.925-, 223.94-, 224.70-. Contact: Andy, N1BHI, PO Box 2282, Lexington, MA 02173. 508, 489-2282. E-Mail: mmra@mmra.org. Walk-in VE sess. (ARRL-VEC) at noon (tentative). Directions: Take Mass Pike (I-90) to Exit 11A (I-495N) to Exit 23B (Rt. 9W). Take 9W to Rt. 30W. Take 30W 1 mi. through traffic circle. Continue on 30W past churches on left and right. High School is on left (90 W Main St.) just past the churches. mr1

PENNSYLVANIA (MONROEVILLE) March 17. The Two Rivers Amateur Radio Club, Inc. will hold its 24th annual Hamfest/ Computer Fair at the Greater Pittsburgh Expomart located in Monroeville, PA. Doors open to the public 8AM-3PM. Two Rivers Amateur Radio Club, Inc., PO Box 225, Greenock, PA 15047-0225. mr1

TEXAS (MIDLAND) March 16 & 17. Midland Amateur Radio Club will be holding their annual St. Patrick's Day Swapfest at the Midland County Exhibit bldg. Sat. 9AM-5PM, Sun. 8AM-2:30 PM. Features include huge flea market inside, many dealers, outdoor flea market area covered by tents, large tailgate area, T-hunts, concession stand, and VE exams at 12PM on Sat. Adm. $7 with pre-registration or $8 at the door. Tables: $10 each for the first two and $15 each for additional tables. For more information contact the Midland Amateur Radio Club at, PO Box 4401, Midland, TX 79704, or by E-Mail: oilman@marshill.com. mr1

FLORIDA (ENGLEWOOD) Saturday, March 16, 8AM-3PM. Englewood Amateur Radio Society presents HamCom96 in the Englewood East Tringali Community Center at Pennell St. and SR 776. Set-up 7AM. Inside swap tables $10 each. Call KA4JKY, George, for swap table info at 813, 697-3445. Free tailgate! $2 admission. Concession Counter. TI: 146.700. All new event! Come join us! mr1

FLORIDA (SEBRING) March 23. Sebrings' 3rd annual Hamfest sponsored by Highlands County Amateur Radio Club. Location: National Guard Armory, US Hwy. 27, 6 miles N of Sebring, FL. 8AM 'til ?? TI: 145.330. $3 donation covers adm. and tailgate spot. $10 donation for inside table space. Children under 15 free adm. For further information contact: George, KD4WDX, 941, 382-4861 or Clyde, WI3X, 941, 453-7181. mr1

GEORGIA (MARIETTA) March 16. 43rd annual Kennehoochee Amateur Radio Club 1996 Hamfest. Location: The Jim Miller Park (formerly Cobb County Central Park) in Marietta, GA. 9AM-4PM. Adm. $5 at the gate, children under 12 years of age are admitted free. VEC exams at 8:30 at the Milford Elementary School on Austell Rd. The Hamfest area is available starting at 2PM on Friday afternoon for vendor set-up. TI: 146.28/88MHz (KARC repeater) Fri. night and Sat. To reserve your space now call Margaret, KB4QKW, 404, 977-4405. Tables: $15 each and Bone Yard space is $10 per space, inside spaces include 2 chairs. mr1

ARKANSAS (LITTLE ROCK) March 15 & 16. Little Rock Hamfest and Arkansas State ARRL Convention will be held at The Little Rock Expo Center. Exit 126, I-30, Southwest Little Rock. Adm. $7. Dealer tables $30 per table. Flea-market tables $20 per table. Tail-gate spaces $15 per space. Electrical power outlets $5 per outlet. For more information contact: Jim Blackmon, KB5IFV, 1008 Pine St., Arkadelphia, AR 71923-4919. 501, 246-6734 office, 501, 246-7833 home. mr1

FLORIDA (STUART) March 23. Martin County Amateur Radio Association, MCARA, will be holding its 20th free Hamfest at the Martin County Fairgrounds. This is the largest free Hamfest held in the Southeast, and this year it will be held in a much larger facility, the fairgrounds of Martin County, FL. VEC exams, free adm., free tailgating, generous prizes. For more information: MCARA, PO Box 1901, Stuart, FL 33495 or contact Romund, KS4KM, 407, 337-1841 or Dave, 407, 288-7100. mr1

WHAT IS THE BEST bargain in ham radio? How about a classified ad in Amateur Radio Trader? For as little as $10.00 you can reach a nationwide audience of ham radio buyers. Call or Fax today. 800, 774-2623, Fax 800, 423-9030.

MISSOURI (KANSAS CITY) March 23. Ararat Amateur Radio Shrine Club presents Hambash '96 at Ararat Temple, 5100 Ararat Drive, Kansas City, MO. Traders' market, main floor, dealers' market, second floor. Set-up 6AM, public 8AM-2PM. Adv. adm. $2 ea., 3/$5, $3 each at the door. Tables: $15 each (includes 3 adm. tickets). Testing pre-registration, no walk-ins. Mail completed 610 to: Exam Registration, PO Box 12757, North KC, MO 64117. Information and table reservations: Bill, W5NI, 816, 246-5305. Tickets: Roger, KB0IIG, 2525 Southwest Blvd., Kansas City, MO 64108. Fax 816, 842-0800. TI: 145.13-. mr1

SAVE 50% ON COSTS if you sign up now for the 1996 Wheeling Hamfest Computer Show, Sunday, September 15, 1996, Wheeling, WV. WV's largest Hamfest, TSRAC, Box 240, Adena, OH 43901-9376. mr1

OHIO (CIRCLEVILLE) Mar. 10, 8AM-? Teays ARC Ham/Computer Fest. New location: AmVets Bldg. on Tarlton Rd. 1/2 mi. off US Rt. 23 just South of Circleville (BP station on corner). Large modern facility. Home style breakfast served from 7AM-11AM. Dealers 6AM set-up. Adm. adv. $4, door $5. Tables: adv. $5, door $6. For info., tickets and tables, contact Roy Ulko, KG8EK, 132 W Main St., Circleville, OH 43113. 614, 477-2771, voice mail 614, 477-8310. mr1

OHIO (MAUMEE) March 17. The Toledo Mobile Radio Association (TMRA) will hold the 41st annual Hamfest/Computer Fair from 8AM to 3PM at the Lucas County Recreation Center, 2901 Key St., Maumee, OH. The event is all indoors with approximately 500 tables. Parking is free. There will be a drawing for a handheld each hour from 10AM to 2PM. TI: 147.270+ or 442.850+. Please send SASE to Bob Mann, N8UPT, 8035 Lewis Ave., Temperance, MI 48182 for table application. Tickets are $4 in adv. and $5 at the door. For adv. tickets please send SASE to Brian Harrington, WD8MXR, 4463 Holly Hill Dr., Toledo, OH 43614. For other information send SASE to TMRA, PO Box 273, Toledo, OH 43697-0273 or Robert N. Hanna, K8ADK, 2154 Circular Rd., Toledo, OH 43614-4205. 419, 382-2529. mr1

5180 ● KEYERS/BUGS/PADDLES (For Sale)

CURTIS KEYER KIT. Has audio amplifier, iambic keying, adjustable speed control. $45.95 postpaid. Speed meter: $14.95. Pos/neg keying, tone-weight control: $10.00. Jade Products, Inc., PO Box 368, E. Hampstead, NH 03826. 1-800, JADE-PRO. http://www.hampstead.k12.nh.us/~djade/. ja2

POCKET MINI-PADDLE! See QRP section 5209! f1

5181 ● KEYERS/BUGS/PADDLES (Wanted)

TELEGRAPH KEYS: PREMIUM paid for Vibroplex, McElroy, Melehan, and other bugs and rare, unusual or unique straight keys or related items. Entire estates purchased. Vince, K5VT, 800, 840-KEYS(5397) or fax 602, 952-1760. tf

LOOKING FOR OLDER Vibroplex, McElroy and other "bugs" keys or paddles. Have keys to sell or trade. Tony, 800, 966-6264, 602, 878-2929. f1

5182 ● KITS (For Sale)

BUILD - FIVE-DIGIT, OHMS, capacitance, frequency, pulse, multimeter. Board and instructions. $9.95. Bagnall Electronics, 179 May, Fairfield, CT 06430. s2

BUILD A BREADBOARD rig for 80/40/30. One-tube transmitter. $34.95. One-tube receiver. $39.95. Power supply. $29.95. All three for $99.95. Shipped UPS. Vintage Radio Co., 457 Varney Street, Manchester, NH 03102. 603, 625-1165. f1

200+ ELECTRONIC plans & kits. Build for pleasure or resale. Make 100% profits reselling printed plans. 55c LSASE for list & dealer info. Matco-B3, POB 509, Roseville, MI 48066-0509. f1

FOR SALE: CRYSTAL radio kits, complete with face panel, base board, variable capacitor, prewound coil and many parts for old style radio. Remit $22.50. Carl & Grace Ent., 5636 Romeyn, Detroit, MI 48209. f1

5183 ● MAGAZINES (For Sale)

QST 1940 THRU 1964. Complete, good condition. Best offer. WB2YEQ, Ken, 516, 546-2260, eve. f2

OLD RADIO MAGAZINES and Allied LaFayette catalogs. Send SASE for list. Antique Radio Store, 8376 LaMesa Blvd., LaMesa, CA 91941. f1

5184 ● MAGAZINES (Wanted)

WANTED: QST's PRIOR to 1920. Raymond Smith, 2313 Stannye Drive, Louisville, KY 40222. Tel. 502, 425-6423. mr1

5186 ● MANUALS (For Sale)

MANUALS AVAILABLE! For all Swan, Cubic Communications, Siltronix, Atlas Gear. Call or write: Brock Publications, PO Box 5004, Oceanside, CA 92052. 619, 757-0372. tf

W7FG VINTAGE MANUALS - Most manuals in stock. SASE for catalog or call. Visa/ Mastercard accepted. 3300 Wayside Drive, Bartlesville, OK 74006. 800, 807-6146. tf

HEATH COMPANY IS SELLING photocopies of most Heathkit manuals. Only authorized source for copyright manuals. Phone: 616, 925-5899, 8-4 ET. ap1

WANTED: SCHEMATICS for anything. Originals only, no photo copies. Send to Norm Fusaro, KD3AQ, 611-C Edison Ave., Philadelphia, PA 19116. f1

MANUALS FOR HEATHKIT SB-610, SB-640. Write to: K8DEO or call 513, 675-3062 evening time. mr1

5187 ● MANUALS (Wanted)

TECH MANUAL BC-348E DEPOT level maintenance. Will settle for Xerox of parts pictorial, schematic, parts list. Will pay costs. Call anytime day or night. 301, 702-1804. Not presently on air. ja2

WANTED: MANUAL FOR Johnson Messenger 323A. Also seeking scanners with full 800 and 900MHz, reasonably priced. Gary, 907, 283-3061. f1

WANTED: MANUAL FOR Knight model T-175 linear amplifier. Gale Roberts, Box 152, Clyman, WI 53016. Phone 414, 696-3491. f2

GLA 1000B DENTRON Radio Co. Need manual, schematic. Jack, W6OLG, 45415 28th E #4, Lancaster, CA 93534. 805, 946-2742, fax 805, 940-8669. f1

COLLINS R-390 MANUAL or photocopy and/or mods appreciated. Gladly reimburse expenses. Jim, WD4SMW, 2001 Eastend Drive, Memphis, TN 38104-2754. mr1

WANTED: MANUAL/ schematic oscilloscope Knight KG-2000. Arnold Lindquist, K6QDC, 2771 Bell St., Sacramento, CA 95821-4654. mr1

WANTED: MANUALS Bearcat scanners BC210, BC210-1, BC210XL, BC201XW, BC300. Walt Hieber, W7LBQ, (ex-W9PGB) (ex-KP4DAZ) (ex--2S5JT), Box 294, Pearce, Arizona 85625. Telephone 520, 826-3249. mr1

H-P 5245L COUNTER, 5253B plug-in, TEK 585 scope, #82 plug-in, Fluke 893A/AR volt meter, Hickock mod 1600 VTVM. K5LTK, RR 1, Box 256, Harwood, TX 78632. 210, 540-4017. f1

5188 ● METAL FABRICATION

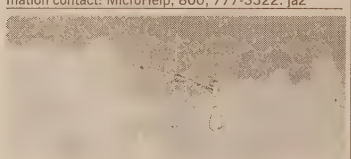
PRECISION SHEET METAL amateur commercial chassis panels for your pet project. Brown Engineering, Inc., 305, 989-4658, KA4VXL. f2

5190 ● MICROPHONES (Wanted)

WANTED: RCA MICROPHONES any model, in any condition. Will pay best prices. Larry Drago, 383 Lincoln Drive, Cheshire, CT 06410. 203, 272-6030. ja2

5192M ● NEW PRODUCT RELEASES

UnInstaller 3 is the safest way to clean Windows. New delete, move, archive and transport features give applications true portability. Users are able to clean and organize their hard drives, recapturing lost disk space and restoring operating speed. For more information contact: MicroHelp, 800, 777-3322. ja2

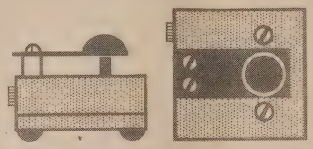


THE CUSHCRAFT A270-6S dual bander for 2-meters and 70CM is the perfect beam for a Ham on a budget. It has the gain and directional characteristics of a Yagi and the convenience of a single compact antenna with one feed line. It has a turning radius of under 3ft. and stainless steel hardware. Assembly is a snap with a fully illustrated assembly manual. Cushcraft, 603, 627-7877. ja2

THE DVR-1 DIGITAL Voice Recorder is a versatile PC board module, which is designed primarily as a voice ID'er for repeaters. But it also provides features so that it can be used as a contest CQ caller or as a "radio notepad" to record short parts of received transmissions for instant recall. For more details, write to Hamtronics, 65-T Moul Rd., Hilton, NY 14468-9535 or call 716, 392-9430. ja2

LONG NEEDED, TUBE type transmitter guide, transceivers, linears and more. (1922-1970) 148 pages, 550 pictures, 600 items, 4 different great indexes (by make, model, final tube, year). $17.95 including US postage, Sound Values, POB 9, Auburn, CA 95604. f1

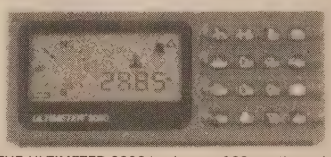
M2 INTRODUCES the 440-21ATV, a new ultra-gain antenna designed to satisfy the most demanding all-weather, ATV performance requirements. For complete specifications, and a catalog of M2 products, contact M2 Antenna Systems, Inc., 7560 N Del Mar Ave., Fresno, CA 93711. Phone: 209, 432-8873, fax:432-3059. ja2



POCKET MINI-KEY model MK-22 is now available from Whiterook Products. Its ultra portable and lightweight design is ideal for QRP operation. Size: 2x2 inches. Price: only $9.95 each postpaid! (Foreign: $12.00) Send check or money order to: Whiterook Products Co., 309 South Brookshire Ave., Ventura, CA 93003-4413. 805, 339-0702. f1

IT'S AMAZING! Whatever you are looking for The Amateur Radio Mail Order Catalog and Resource Directory, 5th Edition will tell you where to find it. Revised and expanded for 1996 with nearly 2,000 listings in 220 categories from alternative energy to wire and cable. The one-stop source book of electronic parts, components, software, books, and equipment. Plus a Resource Directory that includes a listing of free catalogs, an electronics glossary, Q-signals and more. Now available from ARRL (order number 5242), your local dealer, or from Resource Solutions at 770, 448-9836. Price is $15.95 plus S/H. f1

THE HAMTRONICS® TD-4 selective calling module makes LiTZ easy. It is easy to modify the latch input circuits on the TD-4 to perform the LiTZ function, ie, mute the receiver until a dtmf zero has been received for six continuous seconds. For more details, write to Hamtronics, Inc., 65-T Moul Rd., Hilton, NY 14468-9535 or call 716, 392-9430. f1



THE ULTIMETER 2000 tracks over 100 weather values. Base on the proven Ultimeter II it has more memory to store data plus it has barometric pressure standard and humidity as an option. Call Gizmos & Electronics at 1-800, 948-8509 for more information. f1

THE WIREMAN MIGHT have just the thing to feed that multiband HF antenna or other skyhook you're planning to put up. Copperweld, a copper-clad steel wire that is notable for its strength and flexibility. For more details: The Wireman, 803, 895-4195, orders, 800, 727-9473. f1

AMECO CORPORATION has issued Version 2.0 of "The Complete Morse Code Instructor" learning software. Included are 5-1/4" and 3-1/2" diskettes, a 32-page manual on learning Morse Code and a complete Software User's Guide. For more information call: Ameco, 516, 741-5030, fax 516, 741-5031. f1

MFJ ENTERPRISES, Inc. announces the MFJ-462B Secret Shortwave Multi-Reader for only $169.95. For more information or to order, contact any MFJ dealer or MFJ Enterprises, Inc., PO Box 494, Mississippi State, MS 39762 or call 601, 323-5869, fax: 601, 323-6551, or order toll-free at 1-800, 647-1800. f1

CUTTING EDGE'S POWERPORT finally gives you both 115V AC and 12V DC power in one portable compact unit. 12V 7 amp hour gel cell battery is supplied with a wall charger or can be charged in your vehicle, without requiring the engine to be running. For more details, call Roger Hall, Cutting Edge Enterprises, 1695 River St., Santa Cruz, CA 95060. Phone: 800, 206-0115. Fax 408, 426-0115. f1

USE THE SMITH CHART like an expert. Everyone can use this powerful engineering tool because SmithWorks software simplifies impedance matching and circuit analysis through an excellent, user-friendly graphical interface. Requires VGA graphics. Send $2 for a demo disk to Austinsof, 10 Main St., Gonic, NH 03839. 603, 335-6339, fax 603, 335-1756. f1

5193 ● NEWSLETTERS

EARTHQUAKE ELECTRIC signals, monitoring experiments. Sample issue $1.00. Geo-Monitor, 65 Washington Street #400-A, Santa Clara, CA 95050. mr1

5193M ● ORGANIZATIONS

WANTED: HAM RADIO Christian Youth Leaders for nationwide youth ministry. Write for details. Send #10 SASE with call letters: R.F. Bohmer, N1GDP, RAR-OFC Ministries, PO Box 8, Harmony, ME 04942. tf

5194 ● PACKET EQUIPMENT (For Sale)

AEA PK-232. $279.00. PK-12. $114.00. PK-96. $194.00. Call for others. Computer components available at great prices. dfn systems 1-800, 434-4dfn (4336). ja2

MACINTOSH 1200 BAUD Packet. $85.00. Use PacketMac modem and Savant! SDA, PO Box 49085, Colorado Springs, CO 80949. 719, 260-5513. jn2

GENERAL ELECTRIC EXC II radios 100 watt Packet ready, crystalled to freq your choice. Quantity available. $160.00. 606, 528-8961. mr1

A GREAT PACKET TNC with remote operating and mail box updated at Kantronics with all manuals. $149.00 obo. 615, 484-8220 after 4:30 PM/CST. f1

PACKET STATION, WITH 286 computer TNC, 2 meter transceiver, antenna and coax. Must sell, make offer. 615, 484-8220 after 4:30 PM/CST. f1

5197 ● PERSONALS

1 PETER 2, 24-25. GREETINGS and 73 to all! De KK5HD. ja2

5198 ● PHONE PATCH (For Sale)

PRIVATE PATCH V voice delay. $85.00. R-5. $175.00. Six sealed 4CX250B. $525.00; $190/pair. Wanted: Bird slugs. 909, 985-4732, evenings. f1

5201 ● POWER SUPPLIES (For Sale)

ASTRON, BRAND NEW w/warranty, RS-20M for $95.00, RS-35M for $139.00, RS-50M for $199.00. Call for other models. 818, 286-0118. jn1

ASTRON RS-20M metered power supply. $95.00. 806, 745-9234. ja2

SECOM-6 REGULATED 6 amp DC power supply w/cigarette lighter socket in front. Voltage: in: 110-120VAC. out: 13.8VDC. 1yr warranty. $29.95 + $6.50 UPS (cont USA) (Illinois res add 8.25%) Send: Visa, Mastercard, or Discover number & exp date, or money order to: Cable X-Perts, Inc., 113 McHenry Rd., Suite 240, Buffalo Grove, IL 60089-1797. tf

5202 ● POWER SUPPLIES (Wanted)

WANTED: HEATH HP-24 power supply with or without HA-14 amplifier. W4NNHP, 813, 842-4818. ja2

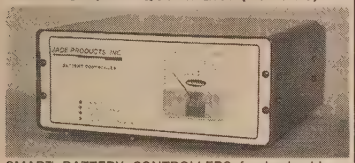
USED, BUT WORKING, Lambdl LYS-W-12. Call AA4IX, 803, 873-9465. f1

PREAMPS:

5204 ● HF PREAMPS

GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.

5209 ● QRP EQUIPMENT (For Sale)



SMART BATTERY CONTROLLERS for lead-acid or gell-cells. Buy basic unit or complete kit which includes meter, lo-volt option, transformer and enclosure. Complete kit: 6,12,14V, 1A MAX: $133.95. 24-28V. 1/2A MAX: $143.95. Basic controller: 6 to 14V; 1A MAX: $60.95; 24-28V. 1/2A: $70.95. Options: transformer kit: $18.95; auto lo-volt disconnect w/alarm output: $18.00. Solar controller basic kit: 6-14V up to 3A: $60.95; 24-28V up to 1/2A: $70.95. Complete solar kit (with lo-volt and enclosure) 6-16V to 3A: $115.95. 24-28V to 1/2A: $125.95. Complete 5A controller 12-14V: $214.95. Prices include postage. Jade Products, Inc., PO Box 368, East Hampstead, NH 03826-0368. http://www.hampstead.k12.nh.us/~djade/. 1-800, JADE-PRO. ja2

POCKET MINI-KEY, MINI-PADDLE (iambic): QRP'ers delights! $9.95 each postpaid! Whiterook Products, 309 South Brookshire Ave., Ventura, CA 93003-4413. 805, 339-0702. f1

OAK HILLS RESEARCH QRP kits, new. Radio Devices, 4 Walter Circle, Westford, MA 01886. Call 1-800, 484-7040 X4856. ja2

5210 ● QRP EQUIPMENT (Wanted)

15 YEAR OLD looking for free HF CW QRP rig schematics. Please send to Matthew Wright, AE4JM, 8679 County Rd. 19, Section, AL 35771 or 205, 228-6547. f2

5212 ● QSL CARDS

Quality QSL's BY WX9X from $18.95. Free samples! Stamps appreciated. 354 West St., Valparaiso, IN 46383. 219, 465-7128, fax:219, 464-7333. tf

QSL CARDS MANY STYLES. Top quality. Order risk free. Plastic cardholders, T-shirts, personalized caps, mugs, shirts. Other Ham shack extras. Information and samples. Rusprint, 1-800, 962-5783. mr2

QSL'S FROM $19.95. Free samples. Stamps appreciated. The QSL Man, Monetta, SC 29105. Phone/fax 803, 685-7117. E-Mail: W4mpy@aol.com. mr1

QSL CARDS. $19.95. Will design. Free samples. Doc's Graphics, 7914 Gleason Road, #1147, Knoxville, TN 37919. 423, 693-8810. Stamps appreciated. f1

SPECIAL: 100 QSL CARDS $7.50. We pay postage. Stamp for sample. Artist, PO Box 111534, Nashville, TN 37222. tf

5215 ● RADIO COMPONENTS (For Sale)

RF TRANSISTORS & TUBES: 2SC2879, 2SC1946A, 2SC1969, 2SB754, TA7222AP, 2SC2029, MRF454, 2SC1947, 4CX250B, 811A, 807, 3-500G. Westgate, 800, 213-4563. f2

OLD RADIOS, TUBES, manuals for sale. Call Art, 715, 266-2107. ja2

SELLING NEW AND USED radio equipment: UHF, VHF, 800MHz, 900MHz, base stations, handhelds and many more. Call or write to Paniks Electronics, 2885 Electronics Dr., Melbourne, FL 32935, for flyer. 407, 253-0889. ja2

HALLICRAFTER SX-111, excellent condition. Hammarlund HQ-170, no clock, exc. cond. Radio receiver R-390 U-RR WSS adapter. Many types radio tubes. Phone 770, 228-3422. Price neg. f2

50 YEARS COLLECTION Ham equipment. Send for complete list receivers, components. Joseph Mardesich, W6GSA, 1513 W 15th St., San Pedro, CA 90732-3923. mr1

5216 ● RADIO COMPONENTS (Wanted)

RF TRANSISTORS, DIP & metal clad micas, variable & trimmer caps. Tube inventories. Clean goods only. Chip, 1-800, 854-1927. tf

WANTED: HIGH QUALITY audio frequency transformers, input, interstage, output. Vernon Vogt, 206, 382-5571. ap1

5218 ● RADIO REPAIR

RADIO EQUIPMENT REPAIR, sales and service. W2AL, Roy Dawson, Radio Communications, 1784 Mitchell Ct., Daytona Beach, FL 32124. 904, 760-7600. n2

ELECTRONIC REPAIR SINCE 1958. All solid state equipment. Factory trained technicians, 90 day warranty, Mastercard, Visa, Discover accepted. Peterson Radio, 120 Grape, Abilene, TX 79601. 800, 284-4032, Bill or Terry Peterson. mr2

HAM REPAIR: KENWOOD HF specialist, all brands serviced. M/C & Visa. Over 1,000 customers agree: B&B Tech Services is the best! K0ZL KB0HTC, 5293 Arbutus St., Arvada, CO 80002. 303, 424-4858, 24 hrs. ja2

AMATEUR RADIO REPAIR, sales, and service. Attap Electronics, Quinlan, TX 75474, Mike, AC5CT, 903, 883-3789. mr1

ALL BRANDS SERVICED. Kenwood specialist. M/C & Visa. Professional Radio Services, 1132 Baseline St., PO Box 990, Cornelius, OR 97113. 503, 359-9630, Fax 503, 359-0681. tf

REPAIR SERVICE. Quality repair of most brands, 30 day parts/labor warranty. FCC licensed, industry certified technician, since 1977. Warner Radio Service Co., Jim and Lori Warner, 407 Van Buren St., Malta, IL 60150. 815, 825-2522, 6-10PM/CST. ja2

5224 ● RELAYS (For Sale)

KILOVAC K47A high voltage relays 8KVdc at 12A SPST flange mount. 210 available. $5.00 ea. or $1,000.00 for all. Tom, 319, 659-5692. ja2

5225 ● RENTAL (Vacation)

ROATAN ISLAND, Honduras: Beachfront studio apartment, tribander, G5RV, scuba diving available. $400.00 week. Phone 011-504-45-2337. ja2

B&B WITH A HAM! Enjoy Hamming from Hawaii. Join those that have chased DX from beautiful upcountry Maui! (Non-smokers only, thanks). "Sea Q Maui" 1-800, 619-5662. E-Mail: moki@maui.net. f1

5228 ● REPEATERS (For Sale)

REPEATER MODIFICATIONS for commercial mobile radios on 3.5" PC disk. Includes instructions for repeater conversions for GE Master II, Custom MVP, Exec II, Motorola Micor, and Mitrek. Covers VHF and UHF mods of all radios listed. Send $12.50 to: Information Sources, 121 S. Main, Suite 205, Victoria, TX 77901. ja2

VEGA C-550 TONE remote console, Vega RP-250 dial-up tone remote adapter. Both are new with manual. Price for both $150.00. 714, 957-3158. f1

5231 ● ROTATORS (For Sale)

WE BUY, SELL AND recondition CDE rotors and control boxes. Edward Trella, Meriden Ct. Phone 203, 237-2875. f1

HEAVY DUTY HAM III rotator with indicator. $200.00. 806, 745-9234. ja2

CDE-HY-GAIN TELEX TR-44. $125.00. Rotator and indicator. 806, 745-9234. ja2

5234 ● RTTY/AMTOR/PACTOR (For Sale)

HAL RTTY STATION DS-3100, MSO-3100, ST-6000, all cables, manuals. $350.00 plus shipping. Richard Brooks, WA8EZI, 3932 Crooked Island Dr., Punta Gorda, FL 33950. 941, 575-0745. ja2

FOR SALE: DES M800 fax converter. Also AEA computer patch interface. Both working ok when last used. $60.00 takes both including shipping in USA. Contact: W1MXT, 154 Main Ave., Millinocket, ME 04462. f2

DO YOU
have merchandise that might interest the *amateur radio market?*
You should advertise in

Amateur Radio Trader

The Ham Radio Marketplace.

Call today!

1-800-77-HAM-AD
(1-800-774-2623)

Be a part of The Ham Radio Marketplace

HAL P38 lightning board AMTOR, PACTOR, ASCII, RTTY, like new with software. Cost $395.00. Will sell for $325.00. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

5237 ● SATELLITE EQUIPMENT (For Sale)

WRASSE FX-666 WEATHER satellite receiver. Displays GOES/Polar WeFax satellite signals directly to NTSC monitor. $300.00. Wrasse SE422 slowscan scanverter $300.00. Universal M605 FDM demodulator $300.00. Universal SCPC100 FMSCPC receiver new $350.00. 804, 862-1262. ja2

ARE YOU READING SOMEONE else's copy of Amateur Radio Trader? You can have your own subscription for only $14.95 per year (two issues per month). Call today! 800, 774-2623. Major credit cards accepted.

CURTIS MATHES "C" band 70MHz receiver. Old model but brand new in box. Great for audio subcarrier tuning and good just to tinker with. $19.95 + $3.90 UPS. 804, 239-7585, Satellite Headquarters. f2

CALIFORNIA MICROWAVE AD2 down converter. Just taken out of service from associated press. Trade for Ham gear. Jim, WD4SMW, 901, 274-9466. f1

WEATHER SATELLITE receiving equipment for sale: Quorum receiver and demodulator, Quorum 1691MHz down-converter, Vanguard 137.5MHz antenna. Excellent condition. Call 602, 451-3605. f1

YAESU 736R DUAL band all-mode 2M/70CM, like new in excellent condition. 9600 baud ready, all original manuals and boxes. $1,595.00 firm. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

5238 ● SATELLITE EQUIPMENT (Wanted)

WANTED: ICOM IC-820H that is satellite ready with 9600 baud mod complete. Must be in like new condition. Will pay top dollar. Must have all accessories and manuals as well as original boxes. 615, 484-8220 after 4:30 PM/CST. f1

5240 ● SCANNERS (For Sale)

AOR, BEARCAT, SOLARCON Ant, Icom. Call Mr. Scanner 1-800, 729-4373 at The Ham Station, Evansville, IN. tf

BRAND NEW PRO 2006 scanner, never used or modified. $475.00. I pay for shipping. Call 800, 518-1858. f1

5241 ● SCANNERS (Wanted)

WANTED: BC-200, BC-205 or other cellular modifiable handheld scanner. Call Scott, KB0NAZ, 319, 243-8134 days. Leave message! f2

5243 ● SHORTWAVE RECEIVERS (For Sale)

REALISTIC DX-390 AM/FM world band portable radio. Features include memory, BFO, dual clocks, AC/DC power, automatic/manual and direct access tuning. Excellent condition. $140.00. 216, 964-6025. f1

DRAKE R-8 RCVR, like new. $700.00. 1-402, 475-8810. mr1

ICOM R-71A. $675.00. JRC NRD-525 w/VHF-UHF cvtr. $899.00. Yaesu FRG-8800. $425.00. Ham Station, 800, 729-4373. f1

5244 ● SHORTWAVE RECEIVERS (Wanted)

HOWARD SW RECEIVER AND/OR other Howard equipment. 'Box,' KF4ATA, 423, .482-2311, 112 Providence Road, Oak Ridge, TN 37830-6339. ja2

5245N ● SPEAKERS (Wanted)

WANTED: WESTERN Electric speakers, horns and drivers in any size, shape, or condition. Call Larry Drago, 203, 272-6030, 383 Lincoln Drive, Cheshire, CT 06410. ja2

WANTED TO BUY: SP-820 speaker for Kenwood TS-820. Herb Raemsch, 2016 Spruce Brook Lane, Montoursville, PA 17754. Call's after 6:30 PM. 717, 433-4558. f1

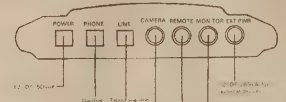
SPEAKERS WANTED: Altec, JBL, Electrovoice, Tannoy, Western Electric, Jensen. Any coaxial, triaxial, corner speakers. Sonny, 405, 737-3312, fax 405, 737-3355. mr1

WANTED: BIG OLD loudspeakers, high quality, any with carrying handles on speaker itself. Vernon Vogt, 206, 382-5571. ap1

WANTED: MATCHING speaker for Kenwood TS-830S in good working condition, reasonable. You pay shipping. David, K4CAL, 907, 747-1062. mr1

5248 ● SSTV (For Sale)

WEFAX/SSTV: WHY PAY more for Wefax/SSTV converters? Our's give great results for half the price. Receive Wefax photos and charts, zoom, colorize, print and store. Fifteen modes of SSTV including full color. CW, RTTY, AMTOR, and more. Excellent software included. Requirements: 386 IBM compatible with VGA and general coverage shortwave receiver with CW/SSB capability. Receive only units $29.95, transmit add-on $29.95, combination receive/transmit unit with A-B switch $59.95, combination RX/TX/A/B switch with microphone switching $89.95. Shipping & handling $5 per unit. NC residents add 6% sales tax, COD's ok. Image The Earth, David & Ervena Gillespie, PO Box 788, Micaville, NC 28755. 704, 675-9942. ja2



SLOW SCAN VIDEOPHONE for surveillance, teleconference, Ham radio SSTV on voice channel. $269.95 per set. Displays on TV, accepts any camera, power 12VDC by AC adaptor. No computer required. PMC Electronics, Box 11148, Marina Del Rey, CA 90295. Tel:310, 822-5050, fax:310, 827-1852. f1

NEW A.T.V. STATION: UHF/VHF fast scan. Absolutely plug and play with two of the best beams, never outside! TDS Systems CU125 + Bestlinks + Down East + Rutland. Hook up your camera and you're on the air! Now reduced from $800.00 to $625.00. Call Murf, WV4R, weekdays 9-4CST at 800, 633-5273. f1

5251 ● SWAP OR TRADE

SWAP UNIDEN HR-2600 10 meter mobile xcvr for 2 meter multi-mode xcvr. Open for negotiations. Call Mel, N8CRN, 810, 686-0380 between 12-6PM. ja2

KENWOOD 430 TRANSCEIVER with all modes and filters. PS-430 power supply, external speaker. Trade for Yaesu 767GX or Yaesu HF + 6 meters 650. Also have all 101ZD series + 902DM + acc. 409, 246-2330. f2

5253 ● TEST EQUIPMENT (For Sale)

CUSHMAN MODEL CE-6030 SERVICE monitor, high stability time base, encoder/decoder module, DC-DC converter, single cable duplex, scope, 0-1000MHz receiver and generator, digital display, wattmeter, 0-150watts, sinadder, dev. meter. $4,500.00. 903, 885-4044. ja2

DYNAMIC CONDUCTANCE tube and transistor tester. Eico model 666. Mint condx, original carton with manual. Best offer. Denny, 2814 Birdseye Lane, Bowie, MD 20715. f1

FOR SALE: COUNTER HP5245L video amplifier HP5261A frequency converter HP5253B 50-500MC spectrum analyzer HP3580A quartz thermometer HP2801A computer HP150/TS disk drives for HP150/TS. Ask list/SAE. WN6H, Maurizio, 408, 735-0586. f1

TEKTRONIX 454 SCOPE 150MHz, exc. cond. $350.00 plus ship. Harold, 904, 476-8107. ja2

HEWLETT PACKARD test equipment (set AN/USM-37D) includes 415E SWR meter HP slotted lines, dial carriage, sections, probe, adapters, etc. In case, mint condition. Set $675.00. Call Dave, 310, 941-0195. mr1

TEKTRONIX TYPE 533A oscilloscope with dual trace. Excellent condition with all manuals. Wanted: external VFO for Kenwood TS-530S. Will trade oscilloscope for VFO. Call KC8AKA, at 513, 692-6420. mr1

5254 ● TEST EQUIPMENT (Wanted)

WANTED: RADIO SERVICE monitors IFR, Motorola, Cushman, Waveteck. Call me last for best cash price. Paul, 408, 929-2244, pager-510, 498-6875. ap2

SERVICE MONITORS WANTED: IFR, Motorola, Marconi. Also want H.P. signal generators, Spectrum analyzers, etc. Phone 716, 661-9964, fax, 716, 763-0371. ja2

NEED THERMISTOR MOUNT, cord, DC cord for HP-431C, also 20dB attenuator DC to 18GHz, good condition only. Bobby Ridge, 1954 Colonial Ln., Hickory, NC 28601. 704, 256-9295. f1

LOOKING FOR CLEAN, good condition Tektronix 7L12, 7L13 or 7L14 spectrum analyzer module for 7000 series scope. State price and condition. K4BEH, 3024 Wendlock Drive, Marietta, GA 30062. 770, 971-1493. f2

TEKTRONIX 570 TUBE curve tracer, tube testers (Hickok, Western Electric), capacitor checkers (Sencore, Eico), record cutting lathes, tube amps, limiters, (Fairchild, Neumann, Westrex, Scully, Altec, McIntosh, Marantz), jukeboxes, etc. 612, 869-4963. mr1

5256 ● TOWERS (For Sale)

ROHN TOWERS DEALER. Pilot Amateur Radio, Neptune, NJ 07753. Tel 908, 776-2522, fax 908, 776-5185. jn1

FOR SALE OR TRADE: 105' and 60' self-supporting towers. 105': 16' x 6' microwave tower. $4,500.00 or trade for Yaesu FT-736R and cash. 60': 14' x 8' tower. $1,500.00. 903, 945-5258 after 6PM. f1

CRANK-UP TOWER 45' galvanized, nice shape, three lengths. Asking $375.00 obo. Call Don at 407, 546-7872, Hobe Sound, FL. f1

114 FOOT TRAILER mounted Triex tower. $5,000.00. Crank-ups, air lift masts, GRA4 40 foot pole kits. 717, 424-5488, fax 717, 424-7630, Stroudsburg, PA. f2

AB-105. EXTRA heavy duty 70 foot tower package. Includes tower, guys, brackets, base insulators, etc. Designed for biggest antennas. New, never installed. $750.00. 806, 745-9234. ja2

80' CRANK-UP tower, 100' coax, CDE rotator, Tempo One transceiver, two meter beam. Pick-up, DeRidder, Louisiana. $1,100.00. 318, 463-8838. f1

80' CRANK-UP with heavy-duty guy wire (new), and insulators, clips, etc. $250.00. Pick-up only, Quartzsite, AZ. WB6WYU, 520, 927-4145. f1

ALUMA TOWERS, crank-up, tilt-over, light weight, strong. Virtually maintenance free. For free information, call C.G.A. Enterprises 800, 284-1466. ap1

5257 ● TOWERS (Wanted)

WANT: ANTENNA TOWER aprox 40 feet. Will consider all offers. Will pick-up if needed. Roger Odorizzi, KC7AUB, 427 Pine Crest, Manson, WA 98831. 509, 687-3919, answering machine. f2

5259 ● TNC'S (Terminal Node Controllers) (For Sale)

AEA PK-232MBX WITH latest mods. Software included. All hook-up cables included. Will ship CONUS. $275.00. Bill, N4BDH, 804, 487-8611. f2

AEA TNC (2-PORTS), Vic-20, Kantronics software, modem, tape unit, books, programs & more. In box, excl cond. $190.00. 510, 753-0365. f1

MOST POPULAR TNC made, the AEA PK-232MBX in excellent condition with all manuals and software. $225.00 obo. U-ship. 615, 484-8220 after 4:30 PM/CST. f1

5261 ● TRANSCEIVERS (For Sale)

GUIDE FOR TUBE type transmitters, transceivers, linears and more. (1922-1970) Over 600 items, 104 manufacturers, 550 pictures, 148 pages. (See display ad) $17.95 including US postage. Sound Values, POB 9, Auburn, CA 95604. f1

5261A ● TRANSCEIVERS (Wanted)

GRADUATING STUDENT seeks CW xcvr to get back on the air. Finances limited but will consider all offers. KC9JC, 1500 South Wall #123-16, Carbondale, IL 62901. f1

WANTED: YAESU FT-5100 2M xcvr. Best price pse! N2FWZ, Ron Lumachi, 73 Bay 26th St., Brooklyn, NY 11214. 718, 996-5698. f2

HF TRANSCEIVERS working or not. Call 413, 533-9275, Dick, KA1JDO. ja2

WANTED: KENWOOD TS-140S in good condition with instruction manual. KC5IKG, PO Box 547, Richards, TX 77873. 713, 896-0652; 409, 851-2223. f1

5261T ● TRANSMITTERS (Wanted)

GLOBE KING 500B OR 500C wanted or near. Looks can be average. Also RME DB-22A pre-selector working. Call eve. 715, 453-4633, days 715, 453-3707, Terry, KB9AUP. f2

WANTED: QRP transmitter, good condx, solid state or tube. Please no junk or antiques! David Napier, KA4ZUC, 115 W Bennett St., Sidney, OH 45365-1713. f2

5265 ● TUBES (For Sale)

ELECTRON TUBES. ALL types bought and sold. Daily Electronics, 10914 NE 39th St. #B6, Vancouver, WA 98682. 800, 346-6667. o1

RADIO TUBES: ORIGINAL WWII types. Send 4x9½ SASE for info. F.J. Conway, 2217 NE 17th Ter., Ft. Lauderdale, FL 33305-2415. tf

TWO MATCHED SETS of 8122. Brand new surplus. $200.00 a set. Loyal, 360, 568-2653. mr1

TUBES: RECEIVING & special purpose. Over 2000 types in inventory. Send for price list. Radio Electric Supply, Box 2790, Rt. 2, Melrose, FL 32666. 904, 475-1950 phone/fax. au1

TWO 4CX1000A TUBES WITH Eimac SK800A socket and SK906. $150.00 for all. John Kanode, N4MM, RFD 1, Box 73A, Boyce, VA 22620. 703, 837-1340. ja2

I HAVE A GOOD selection of NOS tubes available. No price list. Call or fax tube number and quantity needed. Will reply with availability/ cost. Phone 904, 386-2729, fax 904, 386-2560. ja2

2C40, 829B. $15.00 each. Two for $25.00. 2.5 volt 10 amp CT filament transformers. $10.00 each. Jim, W1EQO, 413, 586-5111. f2

N.O.S. TUBE SALE: 6JE6C, 6LQ6, 6KD6, 6LX6, 6LF6, 6JS6C, 6JB6A, 6KG6A, 6KV6A, 20LF6, 30KD6, etc. Singerhouse Sound, PO Box 268, New Richmond, Wisconsin 54017. Phone/fax 715, 246-3899. my1

5266 ● TUBES (Wanted)

TOP DOLLAR FOR CLEAN, unused Eimac tubes. Also 6JB6, 6JE6, 6JT6, 6JU6, 6KD6, 6KG6A, 6LF6, 6LQ6, 6MJ6, 12JB6, 20LF6, 30KD6, 40KG6A, EL509, PL519, 8950, M2057. Chip, 1-800, 854-1927, fax 619, 744-1943. tf

WANTED: ANY WESTERN Electric or Altec-Lansing home or theater amplifiers, tubes or speakers. Top prices paid. Call Larry Drago, 203, 272-6030, 383 Lincoln Drive, Cheshire, CT 06410. ja2

WANTED: WILL PAY $50.00 each for the following Western Electric tubes: 300A or B, 350A or B, 274A or B, 275A or B, 250. Plus I will pay $50.00 each for Genelac KT88, KT66. I will pay $25.00 each for new Tungsol 6550 or Deforest #450 tubes. Call Larry Drago, 203, 272-6030, 383 Lincoln Drive, Cheshire, CT 06410. ja2

HIGHEST PRICES paid for Western Electric tubes N.O.S. or used. Also wanted: 2A3, 10, 45, 50, KT-66, KT-88, 845, 6550 and Altec equipment. Singerhouse Sound, PO Box 268, New Richmond, Wisconsin 54017. Phone/fax 715, 246-3899. my1

5267 ● VE EXAMS

TEXAS (AUSTIN) Feb. 17, at 2PM. Location: Room 109 of Fleck Hall at St. Edward's University, Austin, TX. Walk-ins and handicapped accessible. Sponsor: W5YI-VEC. Contact: Jim Greenwood, AB5EK, 512, 327-6184. f1

ILLINOIS (LIBERTYVILLE) 2nd available Monday each month at 7PM. I.E., in September will be 3rd Monday. Location: Lake County Communications Bldg., Libertyville, IL. Walk-ins. Sponsor: Lake County IL RACES. Contact: Gil Pilz, K9IQP, 708, 362-7851. f1

ILLINOIS (AURORA) Feb. 20, at 7:30 CST. Location: 900 N Lake St., Aurora, IL, (basement). Walk-ins. Sponsor: Fox River Radio League. Contact: J.E. Von Olnhausen, 708, 979-1730. f1

MISSISSIPPI (PASCAGOULA) Feb. 17, at 0900 hours. The test session will be held in the meeting room at Pascagoula Sheetmetal, 5609 Veterans Blvd., Pascagoula, MS. Walk-ins. Sponsor: Jackson County ARC, Inc. Contact: Bob Pierson, N7NE, 601, 497-3096 or Joe Harvey, KI5WQ, 601, 497-4018 for additional information. f1

TENNESSEE (BRISTOL) (W5YI-VEC) Walk-in exams all classes last Thursday of each month, 7PM at Bristol Regional Medical Center, Azalea Room. Exit 74-A I-81. Commercial exams also 1st month of each quarter on day before amateur exams. For info call Bill Owen, W4VS, 423, 968-3350 or Bob Alexander, AE4BB, 423, 968-3120. Special sessions also available as required as well as facilities & accommodations for handicapped. f1

CALIFORNIA (SUNNYVALE) Jan. 28, at 10:30 AM. Location: 840 W Washington Ave., cross St. = Pastoria Ave. Walk-ins. TI: 145.270 (-). Contact: John, KG6XF or Gordon, W6NLG. ja2

CALIFORNIA (CONCORD) Feb. 4, at 1PM. Location: 2945 Treat Blvd., Consolidated Fire Training Center. Walk-ins. TI: 147.735(-). Sponsor: Sunnyvale VEC ARC, Inc. Contact: Gene, WW6H, 510, 254-5090. ja2

CALIFORNIA (FREMONT TP) Feb. 6, at 7PM. Walk-ins. Sponsor: Sunnyvale VEC ARC, Inc. TI: 147.015 (+). Contact: Greg, KJ6EP, 510, 791-6818. ja2

CALIFORNIA (SUNNYVALE) Feb. 10, at 10:30 AM. Walk-ins. Location: 840 W Washington Ave., cross St. = Pastoria Ave. TI: 145.270 (-). Sponsor: Sunnyvale VEC ARC, Inc. Contact: John, KG6XF or Gordon, W6NLG. ja2

ILLINOIS (EVANSTON) Feb. 7, at 7PM. Amateur exams will be held in Room L-318 of Northwestern U. McCormick Engineering Bldg. on Sheridan Rd. & Noyes St. Walk-ins. Sponsor: North Shore Radio Club/ARRL-VEC. Contact Shel Epstein: http://web.nwu.edu/~k9ape/index.html or 847, 853-9292 evenings. ja2

PENNSYLVANIA (PHILADELPHIA) Feb. 1, at 6PM. Location: The Franklin Institute, 20th St. & Ben Franklin Parkway, Phila., PA. Walk-ins ok. Sponsor: Philmont Mobile Radio Club. W3TKQ 147.030. Contact: Dusty Rhoads, ND3Q, 215, 879-0505, 215, 482-0386, 215, 448-1139 tape. ja2

CALIFORNIA (POMONA) Jan. 27, at 1PM. Location: United Covenant Methodist Church, Towne Ave. and San Bernardino Rd., Pomona, CA in Room 12. Please make reservations by calling Don Warburg at 909, 949-0059. We normally test on the last Sat. of the month, except for Field Day and Thanksgiving. ja2

NEW YORK (SETAUKET) Jan. 27, at 9AM. Walk-ins. Sponsor: Ward Melville High School ARC, K2TKE. Contact: John Pomfret, 516, 751-8236. ja2

MARYLAND (ODENTON) Jan. 28, at 9AM. Location: Maryland Mobileers Swapfest at the Odenton Fire Hall. Advanced registration is requested and walk-ins (if space available) will be accommodated after all registered participants. Sponsor: Maryland Mobileers. Contact: Jerry Gavin, NU3D, 410, 761-1423. ja2

IOWA (CLINTON) Every even month, 2nd Saturday, at 9AM. Location: Clinton Community College, 1000 Lincoln Blvd., Clinton, IA. Walk-ins. Sponsor: Clinton Amateur Radio Club. Contact: Roger Gorzney, KD0WY, 319, 242-9486. f1

MARYLAND (CUMBERLAND) Feb. 10. Registration at 8:30 AM. Location: Emergency Management Underground, Cumberland, Maryland. Walk-ins. TI: 146.28/.88. Sponsor: Mountain ARC-VEC. Contact: Leo Patterson, KQ8E, 304, 289-3576 or Gay Rembold, W3DFW, 301, 724-0674. f1

CALIFORNIA (REDWOOD CITY) Feb. 17, at 11AM. Location: 411 Broadway Ampex Cafeteria, 101 Exit 84 or Woodside Rd. (West), left onto Broadway, 2nd set of flashing yellow lights. Walk-ins. TI: 145.23(-) PL=100Hz. Sponsor: Sunnyvale VEC ARC, Inc. Contact: Joe, KB6OWG. f1

CALIFORNIA (SUNNYVALE) Feb. 25, at 10:30 AM. Location: 840 W Washington Ave., cross St. = Pastoria Ave. Walk-ins. TI: 145.270(-). Sponsor: Sunnyvale VEC ARC, Inc. Contact: John, KG6XF, or Gordon, W6NLG. f1

ILLINOIS (EVANSTON) Feb. 21, at 7PM. Commercial. Pre-register. Sponsor: K9APE/N.R.E.-CEC. Location: Room L-318 of Northwestern U. McCormick Engineering Bldg. on Sheridan Rd. & Noyes St. Contact: http://web.nwu.edu/~k9ape/index.html or Shel Epstein 847, 853-9292 evenings. f1

CALIFORNIA (POMONA) Feb. 24, at 1:00. Location: United Covenant Methodist Church, Towne Ave. and San Bernardino Rd., in Room 12. Pre-register. Sponsor: Tri-County Amateur Radio Association. Contact: Don Warburg, 909, 949-0059. f1

MARYLAND (ANNAPOLIS) Feb. 26, at 6PM. Location: Broadneck Library, Cape St. Claire. Advanced registration is requested and walk-ins (if space available) will be accommodated after all registered participants. Sponsor: Maryland Mobileers. Contact: Lois Turner, KA3VVQ, 410, 647-4178. f1

5268 ● WANTED MISCELLANEOUS

WANTED: ANY COMMUNICATION receivers with chrome or nickel-plated chassis such as Lincoln, Breting, Patterson. Call Larry Drago, 203, 272-6030, 383 Lincoln Drive, Cheshire, CT 06410. ja2

"WANTED: ALL MCINTOSH," Marantz, Scott, Fisher, tube-type amps, pre-amps, tuners (other brands also). Sequerra tuners, speakers: Altec, EV, JBL, Ionovacs, any brands with or without cabinets. Larry Zalar, 12052 W. Layton Ave., Greenfield, WI 53228. 414, 529-9805, eves. N9NBE. tf

WANTED: SERVICE MONITOR IFR 1000S or Wavetek 3000 series generators for personal use. Any not working Icom IC-211's for parts. E. Quinnell, Post Office Box 190, Rushford, MN 55971. ja2

INVERTER DC TO 115V AC 600 watts or more. Robert, N5WEA, 501, 653-4300. ja2

WANTED: AM-FM STEREO receivers, amplifiers and tuners in need of repair. Tube or transfer OK. W5OSG, 914 W. Mistletoe Ave., San Antonio, TX 78201. ja2

WANT INFORMATION ABOUT WILDLIFE tracking transmitters: frequencies, power output, range, operating time, source, etc. O.C. Powell, 130 Powell Road, Rocky Mt, NC 27801. 919, 977-6775. ja2

NEW CAMPUS CLUB! Youngstown State University ARC would appreciate any ideas, parts, or equipment donations. Please contact Brian, KC8AXN, 216, 480-1157, Rm. 4051, 205 Madison Ave., Youngstown, Ohio 44504. ja2

SCANNERS, UHF REPEATER; antennas, old tube-type 11 meter bases; 6 meter FM board for the IC-551. Towers, local pick-up take down; books, mags, mods, etc. What do you have? Andy Gagliardo, 7083 Adelaide Ave., Las Vegas, NV 89115. f1

WANTED: DEAD SB-200 for parts. Need bandswitch, tank coils, and plate tune capacitor. Please call 362, 262-3292. f1

TANDY 600 PORTABLE computer schematic or manual. KR4ZJ, PO Box 723, Bridgeton, NC 28519-0723. f2

LOW BAND BUSINESS band HT Wilson, Motorola, etc. Crystal control single channel ok. Must work in 43.44MHz range. Robert, 501, 653-4300. ja2

WANTED: LARGE, CLEAR or any colored glass antenna insulators and glass or porcelain lightning arrestors. John, KD4GQD, 904, 968-5212. mr2

WANTED: ARTICLES showing easy const. of TX/RX from old TV parts. David Smith, KE6PUF, 233 N Homassel, Lindsay, CA 93247. New Ham. f2

MISCELLANEOUS WANTED: Vintage sound equipment. Hi-Fi amplifiers, coaxial/triaxial speakers, old guitars and guitar amplifiers. McIntosh, Marantz, Jensen, Altec, Gibson, Fender VOX, etc. Sonny, 405, 737-3312, fax 405, 737-3355. mr1

WANTED: OLD electronic parts, 4PIN tubes, big old loudspeakers, tube Hi-Fi amps, audio transformers. Vernon Vogt, 206, 382-5571. ap1

UNIPROBE FOR EICO-232 VTVM. Schematic for Hallicrafters S-103. Call days 860, 347-4647 or write Earl Vincent, 38 Ingham Hill Rd., Old Saybrook, CT 06475. f1

WANTED: TUBE equipment, record cutting lathes, amps, limiters, (Fairchild, Neumann, Westrex, Scully, Ortofon, Grampian, Presto, Pultec, Altec, Lang, McIntosh, Marantz), tube testers, Tektronix 570 curve tracer, audio tubes, jukeboxes. 612, 869-4963. mr1

AM USING OLD GEAR, would like to upgrade. Kyran Curran, W3DNY, 3440 Rainey Ave., Hapeville, GA 30354-1310. mr1

COLLINS 70E-8A PTO (or) PTO and dial ass'y (or) 310-B Exciter for parts or restore. B&W 850A and 851. K5LTK, RR 1, Box 256, Harwood, TX 78632. 210, 540-4017. f1

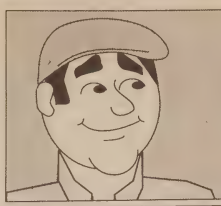
5270 ● WATT METERS (For Sale)

PEP ADAPTER CONVERTS averaging wattmeters to Peak reading, even Bird 43! $19.99 ppd. HI-RES, 8232 Woodview, Clarkston, MI 48348-4058. 810, 391-6660. f2

NOTICE

Copyright © 1996, TAP Publishing Company. All rights reserved. Reproduction in whole or part, graphically or electronically, of any content of the publication without the written permission of the publisher is prohibited.

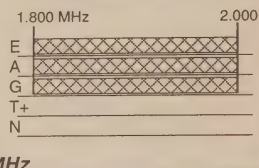
Amateur Radio Trader - It's like holding a hamfest in your hands!



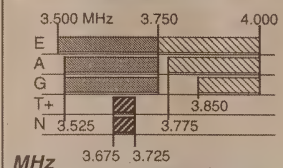
SIMPLETON'S GUIDE TO AMATEUR FREQUENCY BANDS

brought to you by **Amateur Radio Trader**

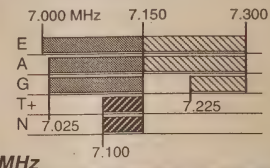
160 METERS



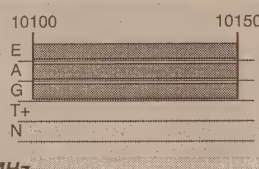
80 METERS



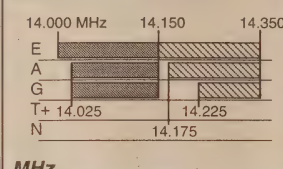
40 METERS



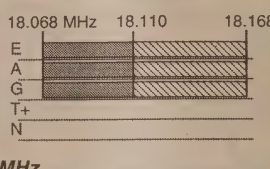
30 METERS



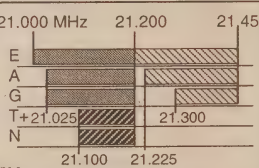
20 METERS



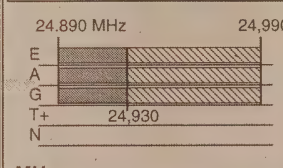
17 METERS



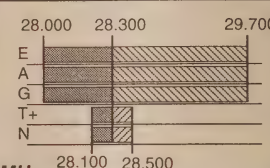
15 METERS



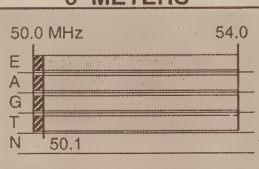
12 METERS



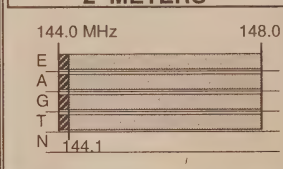
10 METERS



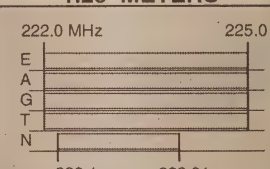
6 METERS



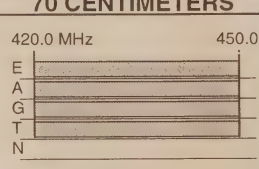
2 METERS



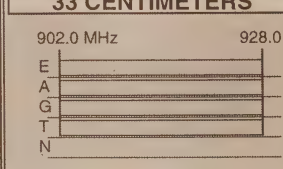
1.25 METERS



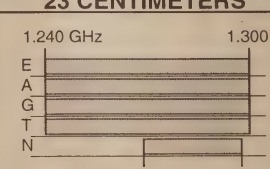
70 CENTIMETERS



33 CENTIMETERS



23 CENTIMETERS



KEY

CW, RTTY, and data

CW. RTTY, data, MCW, test, phone and image

CW, phone and image

CW, RTTY , data, phone and image

CW and SSB

CW only

E	AMATEUR EXTRA
A	ADVANCED
G	GENERAL
T+	TECHNICIAN PLUS
T	TECHNICIAN
N	NOVICE

ALL MODES ARE ALLOWED ON THE FOLLOWING FREQUENCIES FOR ALL EXCEPT NOVICES.

2300 - 2310 MHz	5650 - 5925 MHz	47.0 - 47.2 GHz	142 - 149 GHz
2390 - 2450 MHz	10.0 - 10.5 GHz	75.5 - 81.0 GHz	241 - 250 GHz
3300 - 3500 MHz	24.0 - 24.25 GHz	119.98-120.2 GHz	Above 300 GHz

Simpleton's Guides © 1995 artsci inc. all rights reserved (818) 843-4080

BOB SIMPLETON'S GUIDE TO WORKING ALL STATES

brought to you by **Amateur Radio Trader**

When most of us first heard of Amateur Radio, we thought of sitting at a shortwave radio using a gigantic antenna towering over the neighborhood, chatting with people all over the world and making new friends. Only after getting your license do you discover the great deal of work involved in chatting with these new friends. It's worth all the effort and you find a new respect for all your fellow amateurs who have made the investment.

If you jumped on the HF (shortwave) bands, you discovered a great deal about band conditions, propagation and other terms you only read about in the license manuals. You communicate with other amateurs and soon discover a goal shared by amateur radio operators around the United States: to establish contact with another amateur in each of the fifty states.

This is a very common desire and one that proves your abilities as an amateur radio operator. Many amateur clubs and groups have created a special award for those operators who can demonstrate the ability to "WORK ALL STATES" (W.A.S.).

After you get your shack set up and get on the air, you'll need to keep track of your contacts and most importantly, exchange QSL cards. The QSL card is your proof of contact with the other station. You'll need to send the QSL cards to the club when you apply for your W.A.S. award. The cards will be returned to you.

Some amateurs are really slow sending back QSL cards. You should contact at least two amateurs in each state to insure a QSL card from the state.

This W.A.S. worksheet will be very helpful keeping track of which states you have worked and what states you still need.

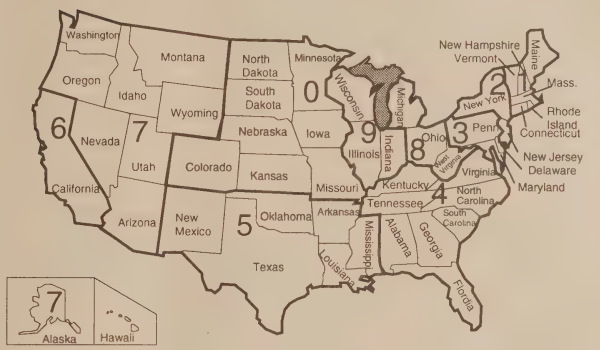
Write the call sign of your contact on the worksheet after you send a QSL card.

Circle the state name on the map after you have received a QSL card.

73 and good hunting.....

Worked all States

Circle the State name after you have worked a station in the state.
Color the state after you have received a QSL card from the state.

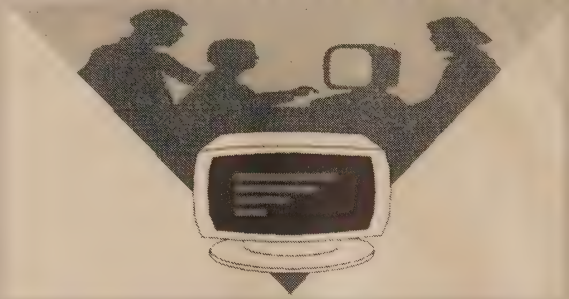


W.A.S. WORKSHEET

STATE	CALL SIGN	CALL SIGN
ALABAMA		
ALASKA		
ARIZONA		
ARKANSAS		
CALIFORNIA		
COLORADO		
CONNECTICUT		
DELAWARE		
FLORIDA		
GEORGIA		
HAWAII		
IDAHO		
ILLINOIS		
INDIANA		
IOWA		
KANSAS		
KENTUCKY		
LOUISIANA		
MAINE		
MARYLAND		
MASS.		
MICHIGAN		
MINNESOTA		
MISSISSIPPI		
MISSOURI		

STATE	CALL SIGN	CALL SIGN
MONTANA		
NEBRASKA		
NEVADA		
NEW HAMPSHIRE		
NEW JERSEY		
NEW MEXICO		
NEW YORK		
NORTH CAROLINA		
NORTH DAKOTA		
OHIO		
OKLAHOMA		
OREGON		
PENNSYLVANIA		
RHODE ISLAND		
SOUTH CAROLINA		
SOUTH DAKOTA		
TENNESSEE		
TEXAS		
UTAH		
VERMONT		
VIRGINIA		
WASHINGTON		
WEST VIRGINIA		
WISCONSIN		
WYOMING		

Simpleton's Guides © 1995 artsci inc. all rights reserved (818) 843-4080



WHAT ARE *YOU* LOOKING FOR?

LOOKING TO SELL THAT EQUIPMENT YOU DON'T USE ANYMORE?
LOOKING FOR NEW SOFTWARE FOR YOUR COMPUTER?
LOOKING FOR ONE SOURCE FOR ALL YOUR AMATEUR RADIO, COMPUTER AND ELECTRONIC NEEDS?

YOU'RE LOOKING AT IT!
AMATEUR RADIO TRADER IS *THE* MARKETPLACE, *THE* ONE AND ONLY SOURCE YOU NEED. IT'S ALSO THE *ONLY* SOURCE YOU NEED TO FIND OUT WHAT'S CURRENT, WHAT'S HOT AND WHAT'S *NOT* ON TODAY'S MARKET *TODAY*, NOT A MONTH AGO.
SO LOOK NO FURTHER - AMATEUR RADIO TRADER BRINGS THE HAMFEST RIGHT TO YOUR DOOR TWICE A MONTH.

CALL AMATEUR RADIO TRADER TODAY TO START YOUR SUBSCRIPTION OR TO PLACE YOUR AD - YOU'LL GET RESULTS!

1-800-77-HAM-AD (1-800-774-2623)

Best Price, Best Service, Best Total Value. . .Guaranteed.
If You Find A Better Value Give Us A Call!

ITEM	DESCRIPTION	PRICE
HF RADIOS		
Icom IC-729		$995.00
Icom IC-735		$950.00
Icom IC-735		$775.00
Icom IC-737		$949.00
Icom IC-781		$5,899.00
Kenwood TS-520		$360.00
Kenwood TS-820S		$525.00
Kenwood TS-820S		$525.00
Kenwood TS-940S		$1,349.00
Yaesu FT-101ZD		$499.00
Yaesu FT-890		$1,095.00
Yaesu FT-900AT		$1,099.00
Yaesu FT-990AT	D.C. version	$1,595.00
HF AMPLIFIERS		
Henry 2KD Classic	Legal Limit Amp	$1,349.00
HF ACCESSORIES		
AEA AT-300	Legal Limit Antenna tuner	$150.00
AEA PCB-88		$119.00
AEA PK-232		$150.00
AEA SWR-121		$299.00
Drake PS-75		$175.00
Icom SP-21		$95.00
Kenwood AT-200		$59.95
Kenwood DSP-100	For TS-850S	$299.00
Kenwood MC-60		$79.00
Kenwood PS-430		$135.00
Yaesu FV-101Z	External VFO for FT-101ZD	$85.00
Kenwood SM-220		$249.00
Kenwood VFO-820		$79.95
MFJ-1278B		$219.00
Nye-Viking MB-V-A	Legal-limit Antenna Tuner	$699.00
Tucker T-275		$99.00
Tucker T-1000		$109.00
Tucker T-1000		$109.00
Tucker TM-3000HF		$54.95
Yaesu SP-901P	External Speaker w/phone patch	$55.00
HF RECEIVERS		
Kenwood R-1000		$299.00
VHF/UHF BASE/MOBILE		
Alinco DR-600T		$499.00
Alinco DR-600T		$499.00
Alinco DR-MO6T		$360.00
Azden PCS-6000H		$250.00
Icom IC-281H		$369.00
Icom IC-970H		$2,799.00
Icom IC-2000H		$299.00
Yaesu FT-227R		$195.00
Yaesu FT-690		$575.00
HANDHELDS		
Alinco DJ-F1T		$249.95
Kenwood TH-28A	Demo	$299.00
Kenwood TH-28A		$289.00
Kenwood TH-79ADH		$439.00
Santec ST-7T	440 MHz HT	$175.00
SCANNERS		
AOR AR-8000		$559.00
Icom IC-R1		$399.00
Uniden BC-2500XLT		$339.00
Uniden BC-9000XLT		$369.00
PORTABLE SHORTWAVES		
Grundig YB-305		$129.00
Grundig Satellit 700		$399.00
Sangean ATS-202		$59.95
Sony ICF-SW10		$39.95
Sony ICF-SW15		$59.00
Sony ICF-SW30		$69.00

WE ALSO HAVE PARTS AND TUBES FOR CLASSIC GEAR!

800•559•7388

Call, Write or Fax For Your FREE Catalogs Today!

TUCKER ELECTRONICS

Prices F.O.B. Garland, Texas - To Order Write, Call or Fax:
P.O. Box 551419, Dallas, TX 75355-1419
Local: 214-348-8800 • Fax: 214-340-5460

Subscription Order Form

Subscription Rates for one year (circle preferred rate):
Third Class $14.95 (just $.62 per issue)
First Class $34.95 (just $1.46 per issue)

Two issues per month; call or write for other subscription rates.

Complete, clip and mail this form to:

Amateur Radio Trader
410 West 4th Street
P.O. Box 3729
Crossville, TN 38557

All rates subject to change without notice.

For immediate service, call toll-free (USA and Canada) 1-800-774-2623 or fax 1-800-423-9030. Internationally, call 615-484-5137 or fax 615-484-2532. Call today!

Amateur Radio Trader®
The Ham Radio MarketPlace.

Yes! Please start my subscription to **Amateur Radio Trader**, *The* Ham Radio MarketPlace.

( ) Check or money order enclosed

Charge my ( ) MasterCard ( ) VISA ( ) American Express ( ) Discover

Credit card #_____ Exp. date_____

Name_____

Call Sign _____

Address_____

City _____ **State**_____ **ZIP**_____

Phone ( ) _____ **Fax** ( ) _____

Everything that keeps you in touch

Radios • Antennas • Amplifiers • Computers • Software • Microphones • Headsets • Manuals • Training • Hamfests • Much More!

BOB SIMPLETON'S GUIDE TO COAX CABLES

brought to you by **Amateur Radio Trader**

One of the most important parts of any amateur radio station is the coax cable. It s importance is as obvious as its function, to carry the RF signals to and from your antenna. In a perfect world, the coax would have no signal loss. However in real life, signal loss is an unavoidable problem. It is not however an unbeatable one.

It is important to remember that not only is your transmitted signal attenuated by coax loss, the signal you are receiving also suffers. When you use a 40 watt transmitter on VHF, 3 db loss is not critical to solid communications. If the signal you are receiving is not very strong, then that type of loss might make it unreadable.

The obvious solution is to make the coax run as short as possible. This is just not possible in some situations, which forces us to use the most efficient coax we can find.

Three main factors will effect the amount of signal loss you will experience: the band you will be operating on, the type of coax you will be using and the length of your coax.

The "coax db attenuation" table lists the seven most popular coax types and the four frequency bands you may be operating on. The db loss figure is found by finding the intersection of the two factors. These loss figures assume you are using 100 feet of coax. If you are only using 50 feet, divide the loss figure in half.

Compare the current type of coax you are using and determine the amount of gain you will realize if you change to a lower loss coax. If the net gain is less than 2 db, you may not feel the money and time expense of replacing the coax is worthwhile.

The "db to percentage loss/gain chart" will show you another perspective on the effect of signal loss. It is very obvious that a good amount of your signal is lost even under the best of conditions.

The coax signal loss can be offset with a gain antenna. If you are using a 3db gain antenna and have 2db loss in your coax, you will end up with a net gain of 1db. Using the db power chart, 1db equals 21% gain. Using a 25 watt transmitter, your ERP will be 30 Watts!!

Remember to keep the number of coax connectors to a minimum because they also increase signal loss .

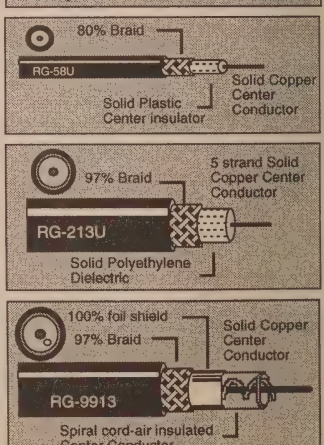
73 and have some fun.

		dB ATTENUATION PER 100 FEET.			
COAX TYPE	VEL %	100 MHz	200 Mhz	400 MHz	1000 MHz
9913 (100% shield)	89	1.4	1.8	2.6	4.5
RG-8U FOAM (8214)	80	1.8	2.7	4.2	7.0
RG-213 (NON-CONTAM.)	66	2.2	3.2	4.7	8.5
RG-8X (MINI-FOAM)	78	3.7	5.4	8.0	13.5
9311 (100% SHIELD 58U)	78	4.5	6.3	9.0	14.5
RG-58U (SOLID CENTER)	66	4.5	6.7	10.0	17.0
RG-58A/U (STRANDED CTR)	66	4.9	7.5	11.5	21.5

db to % loss/gain chart

db chg	power loss/ gain
0.2	4 %
0.4	8 %
0.6	13 %
0.8	17 %
1.0	21 %
1.2	24 %
1.4	27 %
1.6	30 %
1.8	33 %
2.0	37 %
2.2	39 %
2.4	42 %
2.6	45 %
2.8	47 %
3.0	50 %
3.2	52 %
3.4	54 %
3.6	56 %
3.8	58 %
4.0	60 %
4.2	62 %
4.4	63 %
4.6	65 %
4.8	67 %
5.0	68 %
5.2	70 %
5.4	71 %
5.6	73 %
5.8	74 %

Popular Coax Cables



Simpleton's Guides © 1995 artsci inc. all rights reserved (818) 843-4080 URL - http://www.earthlink.net/~artsci

HELP YOUR FELLOW HAMS!!

If you are running a classified ad in ***Amateur Radio Trader,*** *please call us as soon as your item sells so that we can cancel your ad as soon as possible. This will prevent your fellow hams from making costly, unnecessary long-distance calls. Call our toll-free number as soon as you sell your item or as soon as you find what you're looking for - it won't cost you a cent!*

Give us a call - with only a couple of minutes of your time, you can make your fellow ham's life a little easier - and his wallet a little thicker!

1-800-774-2623

Amateur Radio Trader. The Ham Radio MarketPlace.™

ALINCO ELECTRONICS INC.

DR-610T

NEW! DJ-191 2 Meter Handheld

DJ-582T

NEW! DJ-G5T Dualband Handheld

DR-150T

NEW DX-70 HF + 6 Meters With 100 Watts Output

Call For Discount Coupon Specials

- Standard
- MFJ • Telex
- Azden • Ameritron
- Hygain • Daiwa
- Comet • Uniden

Late model used gear gladly taken in trade. All the most wanted accessories.

Ray's Amateur Electronics
1701-G North Main Street, High Point, NC 27262
Local 910-883-6038 FAX 910-883-1464

Orders **1-800-845-5338**

DISCOVER MasterCard VISA

Are you radioACTIVE?

Linda Reeder, N7HVF, sure is! Linda, totally blind since birth, is pictured above recording for NEWSLINE.

"I first learned of HANDI-HAMs in 1986, when I was a Technician. In 1987, I had an aneurysm and almost died. When I recovered, I had to learn the code all over again...I was so discouraged. I attended HANDI-HAM Radio Camp, and it was the best thing I did all year! I came home with my General and two weeks later got my Advanced. Now I have my Extra. It's wonderful to enrich the lives of the disabled."

The HANDI-HAM System is an international organization of able-bodied and disabled hams who help people with physical disabilities expand their world through amateur radio. The System matches students with one-to-one helpers, provides instruction material and support, and loans radio equipment.

Isn't it time you got radioACTIVE with the Courage HANDI-HAM System?

Call or write:
Courage HANDI-HAM System WØZSW
Courage Center, 3915 Golden Valley Road
Golden Valley, MN 55422 • (612) 520-0515

BOB SIMPLETON'S GUIDE TO PL DECODING/SPEAKER MUTING

brought to you by *Amateur Radio Trader*

It is sometimes useful to keep your radio on at all times while waiting for an important call. However the chatter of other users may become a problem.

My good friend Bill likes to have his wife Jan monitor the base radio at home. During high radio traffic times, she will turn the volume down to avoid listening to others. It is then too low for her to hear Bill when he calls.

Bill put together this simple PL decoder circuit and attached it to his base radio. Now the radio speaker is disconnected unless the proper subaudable PL tone is used. Bill always transmits the correct PL tone when he wants to talk to Jan at home. He keep the base radio volume very high so Jan can hear him calling from almost anywhere in the house.

His circuit makes use of the popular TS-32 PL Decoder by Communication Specialists. Most repeater systems use this decoder because it is very reliable and simple to use.

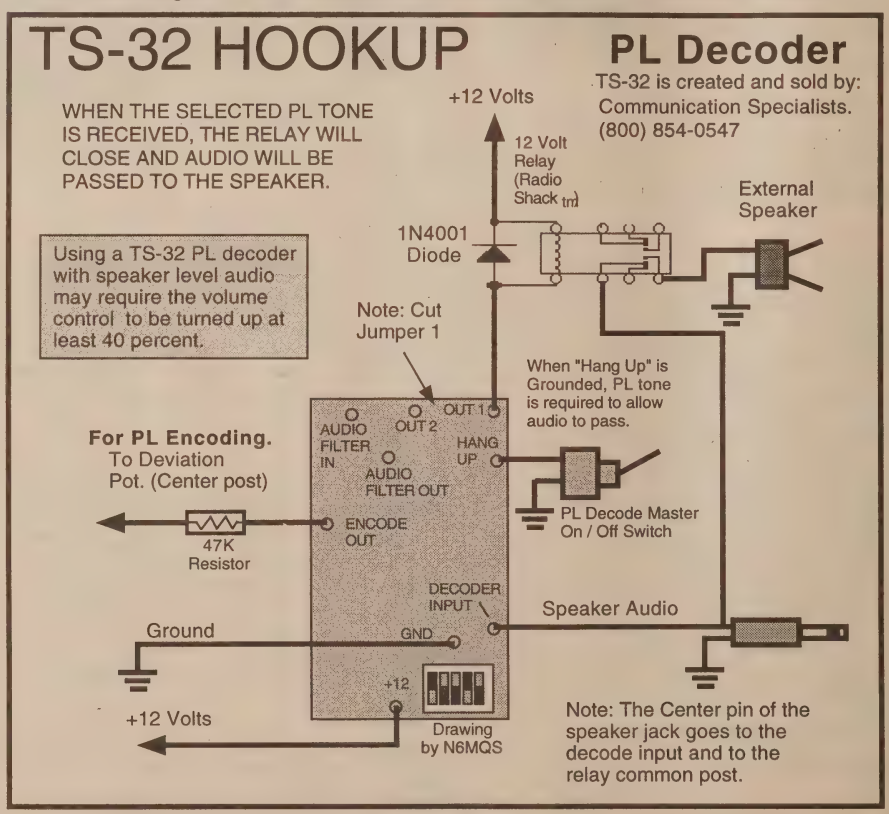
He has included a defeat switch to remove the PL requirement when using the radio for normal two-way communications. The TS-32 PL Decoder board has a special "HANG UP" pin that is grounded through the switch and will keep the relay triggered and all audio will pass to the speaker.

Bill suggested using the other side of the relay to activate a horn, buzzer or light of some kind. I built one of these circuits and used it in the car to flash a light when one of my friends call me. I see the light and turn the stereo down and answer the call. 73 and have some fun.

TS-32 HOOKUP

PL Decoder

TS-32 is created and sold by:
Communication Specialists.
(800) 854-0547


WHEN THE SELECTED PL TONE IS RECEIVED, THE RELAY WILL CLOSE AND AUDIO WILL BE PASSED TO THE SPEAKER.
+12 Volts
12 Volt Relay (Radio Shack tm)
External Speaker
1N4001 Diode
Using a TS-32 PL decoder with speaker level audio may require the volume control to be turned up at least 40 percent.
Note: Cut Jumper 1
When "Hang Up" is Grounded, PL tone is required to allow audio to pass.
OUT 1
OUT 2
AUDIO FILTER IN.
AUDIO FILTER OUT
HANG UP
For PL Encoding.
To Deviation Pot. (Center post)
ENCODE OUT
47K Resistor
PL Decode Master On / Off Switch
DECODER INPUT
Speaker Audio
Ground
GND
+12
+12 Volts
Drawing by N6MQS
Note: The Center pin of the speaker jack goes to the decode input and to the relay common post.

Simpleton's Guides © 1995 artsci inc. all rights reserved (818) 843-4080

CABLE X-PERTS, INC.

COAX (LOW LOSS GROUP) — 100 FT/UP — 500FT

"FLEXIBLE" 9913 FOIL + 95% BRAID 2.7dB @ 400MHz	.58/FT	.56/FT
9913 EQUAL FOIL + 95% BRAID 2.7dB @ 400MHZ	.42/FT	.40/FT
LMR 240 DBL SHLD IIIA JACKET, 1.7dB @ 150MHz	.41/FT	.39/FT
LMR 400 DBL SHLD IIIA JACKET 2.7dB @450MHz	.58/FT	.56/FT
LMR 400 *UltraFlex* DBL SHLD "TPE" Jacket 3.1dB @ 450 MHz	75/FT	.72/FT
LDF4-50A 1/2" HELIX, 1.51dB @ 450 MHz	2.10/FT	
FSJ-50 1/4" SUPERFLEX, 2.23 dB @ 150 MHz	1.50/FT	

COAX (HF GROUP)

RG213/U MIL-SPEC DIRECT BURIAL JACKET 1.5dB @ 50MHz	.36/FT	.34/FT
RG8/U FOAM 95% BRD UV RESISTANT JKT. 1.2dB @ 50MHz	.32/FT	.30/FT
RG MINI 8X 95% BRD BLK, SILVER , OR CLEAR UV RES JKT	.15/FT	.13/FT
RG214/U (2) SILVER BRAID SHIELDS MIL-SPEC	.1.60/FT.	.1.45/FT
RG393/U DBL SILVER TEFLON 25,000 WATTS @ 10MHz	.4.00/FT	.3.75/FT
RG142/U DBL SILVER SHLD "TEFLON"	.1.10/FT.	1.00/FT
RG58/U 95% BRAID	.15/FT	.13/FT
RG58A/U 95% TC BRAID	.17/FT	.15/FT
450 OHM LADDER LINE	.12/FT	.11/FT
450 OHM LADDER LINE 16GA STRANDED	.18/FT	.17/FT

ROTOR CABLE

5971 8/COND (2/18 6/22) for runs upto: 125ft BLK UV RES JKT.	20/FT	.18/FT
4090 8/COND (2/16 6/20) for runs upto: 200ft BLK UV RES JKT.	35/FT	.34/FT
1418 8/COND (2/14 6/18) for runs upto: 300ft BLK UV RES JKT.	47/FT	.45/FT
18GA TINNED COPPER 4/C GRAY PVC JACKET	.20/FT	.18/FT
18GA TINNED COPPER 5/C GRAY PVC JACKET	.22/FT	.20/FT
18GA TINNED COPPER 7/C GRAY PVC JACKET	.26/FT	.24/FT

ANTENNA WIRE — 100 FT/UP — 500 FT

14GA 168 STR "SUPERFLEX" UNINSULATED	.12/FT	.10/FT
14GA 7/22 " HARD DRAWN" BC UNINSULATED	.08/FT.	.07/FT
14GA SOLID "COPPERWELD" UNINSULATED	.08/FT	.07/FT
14GA SOLID " BARE COPPER" UNINSULATED	.08/FT	.07/FT
16GA 26/30 "BARE COPPER" PVC INSULATED	.09/FT	.07/FT
DACRON ROPE DBL BRD 3/16" 770# TEST	.12/FT	.10/FT

DC POWER "ZIP" CORD

10GA 2/C " FLEXIBLE" OIL & GAS RESISTANT RED/BLK " ZIP"	.40/FT .38/FT
12GA 2/C " FLEXIBLE" OIL & GAS RESISTANT RED/BLK "ZIP"	.30/FT .28/FT

18GA, 16GA & 14GA STOCKED T00

COAX W/SILVER TEFLON PL259's EA END — Price

100 FT RG213/U MIL-SPEC DIRECT BURIAL 1.5dB @ 50MHz	$45.00 EA.
50FT RG213/U MIL-SPEC DIRECT BURIAL JKT 1.5dB @ 50MHz	$25.00 EA
100FT RG8/U FOAM 95% BRD UV RESISTANT 1.2dB @ 50MHz	$40.00 EA
50FT RG8/U FOAM 95% BRD UV RESISTANT 1.2dB @ 50MHZ	$22.50 EA

BALUNS

W2AU 1:1 OR 4:1 1.8-40MHz TRANSFORMER TYPE	$24.00/EA
W2DU 1.1 1.8-30MHz CURRT TYPE DIPOLE OR BEAM	$26.00/EA
W2DU 1.1 1.8-30MHz IN LINE CURRENT BALUN	$28.50/EA
LADDER LOC	$11.95/EA

GROUNDING BRAID

1" TINNED COPPER BRAID ..... .25FT $22.00 50FT $44.00 100FT $85.00
1/2" TINNED COPPER BRAID ..... .25FT $12.50 50FT $25.00 100FT $48.00
LONGER LENGTHS TOO!

CONNECTORS

PL 259 SILVER/TEFLON/GOLD TIP	.10PK $11.00.	.25PKS $25.00
"N" CONNECTOR SILVER/GOLD TIP	10PKS $32.50	.25PKS $75.00

CABLE & WIRE CUT TO YOUR SPECIFIC LENGTH! CUSTOM CONNECTOR WORK TOO!

ORDERS ONLY: 800-828-3340

TECH INFO: 708-506-1886 FAX: 708-506-1970

113 McHenry Rd., Suite 240 - Buffalo Grove, IL 60089-1797

E-Mail: cxp@ix.netcom.com

FOR COMPLETE LITERATURE MAIL # 10 S.A.S.E.

Do you want *your* ad to get results?
Place it in Amateur Radio Trader -
***The* Ham Radio MarketPlace.**
1-800-77-HAM-AD
(1-800-774-2623)

COLLINS

THE COLLINS JOURNAL

Devoted to the Preservation of Collins Radio Equipment

Technical Articles, News, Features, Tidbits, Free Ads.

Published Monthly
Subscribe to: David Knepper, W3BJZ, Box 34
Sidman, PA 15955 - USA
Telephone: (814) 487-7468

First Class Subscription: USA-$15
Canada - $20 Overseas - $25

Quality Microwave TV Systems
WIRELESS CABLE - ITFS - MMDS
ATV - INTERNATIONAL - S-BAND
Amplifiers • Antennas • Books • Components
Filters • Systems • Video Products
• RF Frequency 1990 - 2700 MHz
• Cable Ready - VHF - UHF Outputs
• SASE For "FREE" Catalog or Send $1
PHILLIPS-TECH ELECTRONICS
PO Box 8533 • Scottsdale, AZ 85252
CHALLENGER SYSTEM 33-Channel 52dB+ Gain Complete Grid $265 Five Year Warranty FREE SHIPPING
ORDER LINE 800-880-MMDS
CATALOG / INFO 602-947-7700
FAX LINE 602-947-7799
Visa • M/C • Amx • Disc • COD's • Qty Pricing

VIS Study Cards
Flash cards for Amateur Radio
Fun and Easy
The secret is out! Find out how your friend upgraded almost overnight...call...
1-800-OKK-HAMS

- **BLOWOUT HP 7475A Plotters $99.00**
- **BLOWOUT 2 Meg 72 pin simms $50.00**
- VGA Color Monitors **$80.00**
- CGA Color Monitors **$25.00**
- EGA Color Monitors **$40.00**
- Laser Printers .**$300.00**
- 9 Pin Printers . . .**$30.00**
- 24 Pin Printers . .**$50.00**
- 6' Printer Cables **$ 2.00**
- CD Software . . .**$10.00**

AAA Trip Planner
Jetfighter II
Arthur's Teacher Trouble

- Mice .**$5.00**/3 for **$10.00**
- Keyboards **$10.00**
- SCSI Cables . . .**$ 3.00**

We carry an extensive line of IBM PS-2 parts. Hundreds of Token Ring and memory cards in stock.

Terms: Strictly COD

Yukon Marketing Group, Inc.

2263 Walworth Marion Road, Box 572,
Walworth, NY 14568

Ph: 315-986-8400
Fax: 315-986-8538

BOB SIMPLETON'S GUIDE TO QUARTER WAVE ANTENNAS

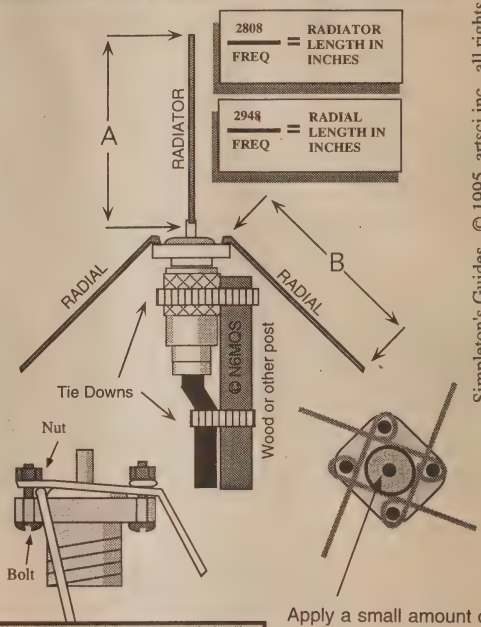
brought to you by *Amateur Radio Trader*

One of the simplest antennas you can build is a quarterwave ground plane antenna. It is small in size and is inexpensive.

The only part you will need to buy is an SO-239 panel mount connector. You can use an old wire hanger for the radiator and radials.

You will need to use your soldering iron or gun to attach the Radiator to the center post of the SO-239. File any paint or coating from the radiator wire before soldering. Cut the radiator to the proper length before soldering it. If you can find a short copper tube to help secure the radiator to the SO-239, your antenna will stand up to high winds.

The radials may be soldered or attached with screws. Screws are the easier method if you take the time to overlap them as shown in the diagram. Cutting the radials may be done after the construction is complete.



Apply a small amount of sealant around the center pin to prevent water from entering the connector.

Simpleton's Guides © 1995 artsci inc. all rights reserved (818) 843-4080

FREQUENCY CUTTING CHART

RADIATOR FREQ	RADIALS	
28.1	99.93	104.93
28.2	99.57	104.55
28.3	99.22	104.18
28.4	98.87	103.82
28.5	98.53	103.45
28.6	98.18	103.09
28.7	97.84	102.73
28.8	97.50	102.38
28.9	97.16	102.02
29.0	96.83	101.67
29.1	96.49	101.32
29.2	96.16	100.97
29.3	95.84	100.63
29.4	95.51	100.29
29.5	95.19	99.95
29.6	94.86	99.61
29.7	94.55	99.27
29.8	94.23	98.94
29.9	93.91	98.61
50.0	56.16	58.97
50.5	55.60	58.38
51.0	55.06	57.81
51.5	54.52	57.25
52.0	54.00	56.70
52.5	53.49	56.16
53.0	52.98	55.63
53.5	52.49	55.11
54.0	52.00	54.60

RADIATOR FREQ	RADIALS	
144.0	19.50	20.48
144.5	19.43	20.40
145.0	19.37	20.33
145.5	19.30	20.26
146.0	19.23	20.19
146.5	19.17	20.13
147.0	19.10	20.06
147.5	19.04	19.99
148.0	18.97	19.92
220.0	12.76	13.40
220.5	12.73	13.37
221.0	12.71	13.34
221.5	12.68	13.31
222.0	12.65	13.28
222.5	12.62	13.25
223.0	12.59	13.22
223.5	12.56	13.19
224.0	12.54	13.16

RADIATOR FREQ	RADIALS	
423.0	6.64	6.97
424.0	6.62	6.95
425.0	6.61	6.94
426.0	6.59	6.92
427.0	6.58	6.90
428.0	6.56	6.89
429.0	6.55	6.87
430.0	6.53	6.86
431.0	6.52	6.84
432.0	6.50	6.83
433.0	6.48	6.81
434.0	6.47	6.79
435.0	6.46	6.78
436.0	6.44	6.76
437.0	6.43	6.75
438.0	6.41	6.73
439.0	6.40	6.72
440.0	6.38	6.70
441.0	6.37	6.69
442.0	6.35	6.67
443.0	6.34	6.66
444.0	6.32	6.64
445.0	6.31	6.63
446.0	6.30	6.61
447.0	6.28	6.60
448.0	6.27	6.58
449.0	6.25	6.57
450.0	6.24	6.55

Facts about Rubber Ducks

The rubber duck antenna on your handheld is not a very efficient antenna. The typical 2 meter rubber duck has a 5dB loss. If you have a 3 watt radio, your rubber duck will only radiate less than 1 watt!!

A quarterwave antenna has 0 db loss and will allow all 3 watts to be radiated!!

Do-It Electronically

The Electronic Call Aid is used to make contact-"CQ, CQ _____." Preprogram a 20 second or less message, then place your microphone next to the device. Press the program button and the message will repeat.

State-of-the-art circuitry-no moving parts, no tapes. Voice is recorded on a microchip.

Operates on a 9 volt battery or hooks directly into 5 to 24 volt DC current. 3.5 female jack supplied.

To order send check or money order plus $7.50 postage and handling. Allow 3 to 4 weeks for delivery in the USA.

Capital Devices Inc.
P.O. Box 151, Camp Hill, PA 17001
Phone: 717 737-9000

LITTLE ROCK HAMFEST
and
ARKANSAS STATE ARRL CONVENTION
The Little Rock Expo Center
MARCH 15-16, 1996
Exit 126, I-30, Southwest Little Rock
(Same Location as 1994, 1995!)

135,000 square feet of indoor space, with excellent lighting, heat and air conditioning, wide hallways, more than 1200 parking spaces, handicapped access through all entrances and MUCH more!

• Dealers • Flea Markets
• Tail-Gates • Exhibitors • Forums
• Plus Special working stations and exhibits of interest to all!

For more information or reservations, contact:
Jim Blackmon, KB5IFV, Chairman
1008 Pine St., Arkadelphia, AR 71923-4919
(501) 246-6734 - Office (501) 246-6736 - Fax
(501) 246-7833 - Home (24-Hour Recorder)
Home BBS KB5IFV-1, Arkadelphia, AR

Do you want *your* ad to get results?
Place it in Amateur Radio Trader - *The* Ham Radio MarketPlace.
1-800-77-HAM-AD
(1-800-774-2623)

CUBEX QUAD ANTENNA CO.
"A 39 YEAR TRADITION"
SKYMASTER H.F. KITS FROM $289.95
PRE-TUNED H. F. QUADS FROM $349.95
NEW FROM CUBEX
2 METER 4 EL. PRE-TUNED $44.95 +S&H
6 METER 2 EL. PRE-TUNED $69.95 + S&H
DOUBLE BRAIDED "DACRON" FOR GUYING, DIPOLES,?
UV- RESISTANT, NON-CONDUCTIVE, SIZES TO 1770 lbs.
Write Or Call For Free Catalog
2761 SATURN ST. *E* BREA CA 92621
(714) 577-9009 FAX (714) 577-9124

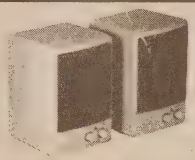
Mr. NiCd *YOUR SOURCE FOR*

BATTERIES!

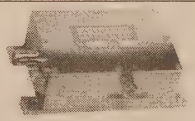
- *AMATEUR RADIO BATTERY PACKS*
- *REPLACEMENT RECHARGEABLE INSERTS*
- *LAPTOP COMPUTER BATTERIES*
- *CAMCORDER BATTERY PACKS*
- *CELLULAR PHONE BATTERY PACKS*
- *SEALED LEAD-ACID BATTERIES*
- *O.E.M. & CUSTOM ASSEMBLY PACKS*
- *AUTHORIZED SANYO NiCd DISTRIBUTOR*

Call or write for our free catalog!

Mr. NiCd
E.H. Yost & Co.
2211-D Parview Rd., Middleton, WI 53562
Phone (608) 831-3443 Fax (608) 831-1082
DEALER INQUIRIES INVITED



AMPLIFIED SPEAKER PAIR
These units have excellent audio for their small size (approx. 3" x 3" x 5") and are loud enough, too. A 3.5mm stereo plug brings the audio in, and each speaker has its own volume control. They run on 6VDC (four "C" batteries) or an external 6VDC wall transformer. Cables included.
94V007 $9.95/pair



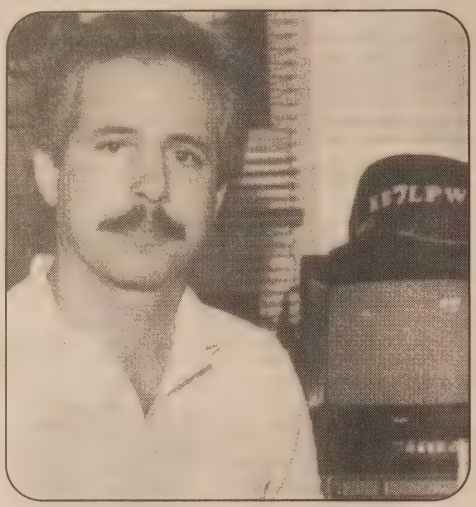
UHF LINEAR AMPLIFIER
Gain: 17dB. Bias: 18V @ 100mA. Used in cellular communications equipment.
96V001 $14.95 each

Send $2.00 For Our New Catalog!
$4.00 Foreign. Refundable on First Order.

ALLTRONICS
2300-D Zanker Road • San Jose, CA 95131
Voice (408) 943-9773 • Fax (408) 943-9776
World Wide Web: http://www.alltronics.com
On-Line Ordering: (408) 943-0622
14400-N-8-1-24 Hrs.
060196

HAM RADIO & MORE

National Talk Radio Show With Len Winkler, KB7LPW



America's Only Ham Radio Show On The Broadcast Bands!

Sundays 6:00 pm EST

WEEKLY CO-HOSTS: JOHN MOORE, NJ7E, AND NED STEARNS, AA7A-WEEKLY DX UPDATE WITH LEE FINKEL, KY7M

HAM RADIO & MORE AFFILIATES

AR: KNWA 1600 BELLEFONTE***
KELD 1400 ELDORADO 501-862-1400
KBTM 1230 AM JONESBORO
AZ: KFNN 1510 PHOENIX*** 602-241-1510
KVRD 1600 PRESCOTT 520-634-2286
CA: KNNS 1290 CHICO/REDDING
CT: WATR 1320 HARTFORD*** 203-755-1121
FL: WFFG 1300 MIAMI/KEYS*** 305-743-5563
WIPC 1280 TAMPA/ST. PETE*** 813-676-9179
GA: WGIG BRUNSWICK
WDAK 540 AM COLUMBUS
IL: WBGZ 1570 ALTON*** 618-465-3535 (CARY)
WTIM 1410 TAYLORVILLE/SPRINGFIELD***
217-824-3395 RANDY MILLER
IN: WPDJ 1300 HUNTINGTON***
(FT. WAYNE) 219-358-0718 (RUBY)
KS: KKLE 1550 WICHITA/WINFIELD
KLEY 1130 AM WELLINGTON
KY: WMTA 1380 CENTRAL CITY***
(W CENTRAL) (BRIAN SMEATHERS)
LA: KGGM 93.5FM MONROE***(DEL-HI)
KEEL 710 SHREVEPORT 50,000 WATTS!!
KAIN 1040 AM VIDALIA
MA: WNBH 1340NEW BEDFORD/PROVIDENCE***
508-996-3371 FAX: 508-990-3453
BOSTON CABLE CHANNEL 38B***
ME: WJTO 730 BATH
MI: WABJ 1490 ADRIAN/TOLEDO
WMKT 1270 AM TRAVERSE CITY/CADILLAC
WKBZ 859 AM MUSKEGON/GRAND RAPIDS
MD: WNTR 1230 AM CUMBERLAND, WASHINGTON DC
MO: WBGZ 1570 ST. LOUIS*** 618-465-3535
KSLQ 1350 WASHINGTON*** 314-239-6800
FAX: 314-239-0364
KSWM 940 AURORA, OZARKS
MS: WSUH 1420 MEMPHIS, TN./OXFORD, MS.
WJNT 1180 PEARL, JACKSON 50,000 WATTS
MT: KDRG 1400 BUTTE/DEER LODGE
NC: WEEB 990 FAYETTEVILLE***919-552-2263
(STEVE ADAMS)
WCRY 1460 RALEIGH*** 910-552-2263
WHKY 1290 HICKORY*** 704-322-5115
WRAQ 1240 BRAVARD
WIFM 1540 GREENSBORO, ELKIN
WEWO 1460 AM LAURINBURG
WGAI 560 AM ELIZABETH
WSKY 1230 AM ASHEVILLE
NE: KICS 1550 LINCOLN/HASTINGS*** 402-463-1314
(MIKE WILL)
NM: KICA 980 CLOVIS***
KCCC 930 AM CARLSBAD
NY: WDCS 1190 ALBANY, SCHENECTADY
WBZA 1230 AM GLEN FALLS
OH: WIOI 1010 CHARLESTON/HUNTINGTON/NEW
BOSTON***
OK: KTMC 1400 MCALESTER, TULSA***
918-423-1400 (SCOTT ROBERTS)
KADS 1240 OKLAHOMA CITY***
OR: KBNP 1410 PORTLAND*** 503-223-6769
(DENNIS HARMON) FAX: 503-223-4305
PA: WJMW 550 SCRANTON/WILKES-BARRE***
717-784-5500
SC: WPCC 1410 CLINTON***
WJMX 970 MYRTLE BEACH/FLORENCE***
803-667-9569 GARY
WDAR 1350 AM DARLINGTON
TN: WNWS 101.5 FM JACKSON
WIZO 1380 FRANKLIN, NASHVILLE
TX: KIVY 1290 CROCKETT/PADDINGTON***
409-544-2171 JIM GIBBS
KTNZ 1010 AM AMARILLO
UT: K26EM CHANNEL 26 TV EMERY
COUNTY/CASTLEDALE
VT: WSYB 1380 RUTLAND*** 802-775-5597
FAX 802-775-6637
WA: KSBN 1230 SPOKANE
WI: WHBY 1150 GREEN BAY/APPELTON, OSHKOSH
WV: WWNR 620 BLUEFIELD/BECKLEY***
WETZ 1330 NEW MARTINSVILLE
WHAR 1340 CLARKSBURG, WESTON
WLTP 1450 PARKERSBURG

WWCR, 100,000 WATTS, LIVE ON 7.435 OR 5.065 AND TAPE DELAYED EVERY MONDAY, AT 1000UTC ON 7.435 OR 5.065 AND EVERY SATURDAY ON 12.160 AT 1700 UTC.

TALK AMERICA: 617-828-4546 1-800-298-8255 : ALSO, ANY LOCAL STATION CAN PICK THE SHOW UP AT NO CHARGE; THEY ONLY NEED TO RUN THE SHOW IN FULL, WITH THE 6 NATIONAL SPOTS, AND THEY HAVE 6 LOCAL SPOTS.
CALL YOUR LOCAL TALK RADIO STATIONS AND TELL THE PROGRAM DIRECTOR THAT YOU WANT *HAM RADIO AND MORE* TO BE AIRED AND THAT 100'S OF HAMS WILL DEFINITELY LISTEN. THE SHOW RUNS AT 6:00 PM EST (2200z). IT IS AVAILABLE ON SPACENET 3, TRANSPONDER 9, 6.8 AUDIO FOR HOME DISH (ANALOG)

FOR FURTHER INFORMATION CALL LEN WINKLER AT 602-861-0303, FAX TO 602-241-1540, OR CALL THE STATION AT 602-241-1510.
ALSO, BE SURE TO CHECK OUT OUR WWW HOME PAGE. IT HAS INFORMATION ON UPCOMING SHOWS, REVIEWS OF PAST SHOWS AND EVEN THEME MUSIC. IT IS UPDATED COURTESY OF THE BOSTON AMATEUR RADIO CLUB. ACCESS IT AT http://www.barc.org/barc/ham-more.html

AMATUER WHOLESALE CLUB

FREE MEMBERSHIP

STANDARD C508 $259

SPECIAL DEALS ON HIGH QUALITY EQUIPMENT

ADI

			YOUR COST
AT-200	2METER HANDHELD 7.2V BATT-2.5 WATTS	LIST $300	$165.00
AT-200H	12.0VBATT-5.0 WATTS	LIST $339	$189.00
AT-400	440 MHZ HANDHELD 7.2V BATT-2.5 WATTS	LIST $480	$189.00
AT-400H	12.0VBATT-5.0 WATTS	LIST $519	$219.00
AR-146	2METER MOBILE 50 WATTS	LIST $549	$289.00
AR-446	440 MHZ MOBILE 35 WATTS	LIST $690	$319.00
	ACCESSORIES		
ARC-12	SMARTCHARGER W/DISCHARGE-DELTA	LIST $170	$69.95
RBP-072	BATTERY 7.2V 700 MAH	LIST $79	$44.00
RBP-120	BATTERY12.0V 600 MAH	LIST $99	$69.00
CHA-072	WALL CHARGER 7.2 BATTERY	LIST $25	$11.00
PCA-145	CIG LIGHTER ADAPTER	LIST $30	$15.00
CPB-262	BATTERY CASE FOR NICADS/AA	LIST $39	$19.00
CMP-145	COMPACT SPEAKER MICROPHONE	LIST $69	$35.00
SLC-200-S	LEATHER CASE FOR 7.2 V BATT	LIST $38	$18.00
SLC-200-L	LEATHER CASE FOR 12.0VBATT	LIST $44	$22.00

PREMIER (ANLI) ANTENNA

HT ANTENNA

RD-8	2/70 & 900 MHZ GOLD BNC 6.5"	LIST $30	$15.00
RD-78	2/70 & 900 MHZ 2.15DB/3.2DB GAIN	LIST $49	$34.00
AL-800	2/70 3.2/5.6 50W HIGH GAIN (2FOR1)BNC (ONE TELESCOPING AND 1 WHIP ANTENNA)	LIST $59	$39.00

MOBILE ANTENNA (ALL MOBILE ARE BLACK CELLULAR LOOKALIKE)

AT-2NMO	2/70 3.0/5.6DB 140-160&390-490 (24"HIGH)	LIST $80	$50.00
AT-2+NMO	2/70 4.1/6.0DB 41"	LIST $90	$60.00
AT-2A+NMO	2/220 4.1/4.8DB 41"	LIST $90	$62.00
AT-2TRINMO	2/220/70 4.1/4.8/6.0DB 42"	LIST $99	$70.00
AT-3UHF	2/70 2.15/3.0DB 17" UHF MOUNT	LIST $40	$29.00

BASE ANTENNA (ALL ARE WHITE FIBERGLASS)

A-200	2/70 1 SECTION 4.5/7.2 DB 6.0'	LIST $150	$99.00
A-300	2/70 2 SECTION 6.8/9.3 DB 11.5'	LIST $220	$150.00
A-1000	2/70 3 SECTION 8.5/11.8 DB17.5'	LIST $349	$200.00

ACCESSORIES (ALL MOUNTS ARE BLACK)

MC-1	MAGNET NMO OR UHF MOUNT 15'	LIST $40	$29.00
TA-1	TRUNK MOUNT NMO OR UHF 15'	LIST $40	$29.00
WA-1	WINDOW/SUN ROOF BNC 8' CABLE	LIST $25	$24.00
CM-1	CLIP MOUNT 8' CABLE ADJUST/BNC	LIST $35	$20.00
DX-2	DUPLEXER M/MM NO LEAD 2/70	LIST $60	$45.00
TX-3	TRIPLEXER M/MMN NOLEAD 2/70/1.2	LIST $89	$65.00

ORDER DESK CALL 201-482-8111

We Got a PhD
So You Wouldn't Need One.

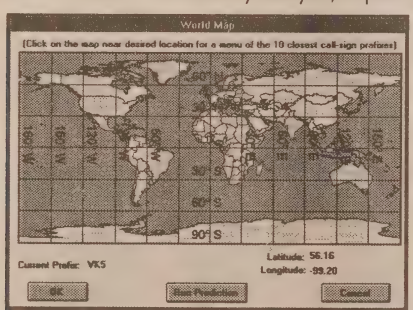
SKYCOM 2.0™

Skywave Propagation Prediction Software for Windows 3.1/Windows 95

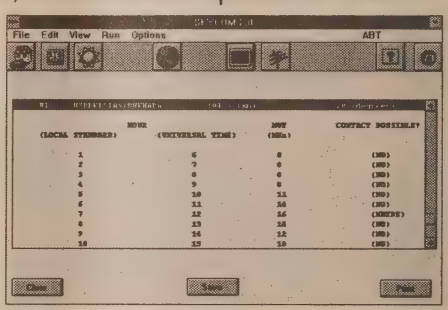
You want to know the best time to contact Adelaide, Australia... the best frequency to use... taking your rig's capabilities into account. And you don't want to wade through complex charts and graphs with your mouse in one hand and a textbook on HF propagation in the other to get your answer.

SKYCOM™ 2.0 is the latest release of a powerful yet easy to use software package developed by a lifelong ham (and PhD Engineer) who feels that much of the HF propagation software available is far more academic and complex than many hams need or want. SKYCOM™ 2.0 gives hams accurate, understandable, and fast predictions of the Maximum Usable Frequency (MUF) and Signal to Noise Ratio they should expect when DXing to the location of their choice, on the date of their choice.

The familiar Windows interface makes running a prediction with SKYCOM™ 2.0 as simple as entering the current solar flux or sunspot number, selecting a location from our database of over 400 call sign prefixes, and pressing a button. SKYCOM™ 2.0 instantly tells you, in plain English, the best times and frequencies for contact.



World Map Location Selection Screen



Quick Look Prediction Screen

While SKYCOM™ 2.0 operation is simple, the science behind it is not. SKYCOM™ 2.0 uses an enhanced algorithm based upon the Naval Ocean Systems Center ionospheric model that takes into account the specific capabilities of your equipment and computes the total path loss. Since its introduction for the Macintosh in 1987, SKYCOM™ users have been pleased with its performance. SKYCOM™ 2.0 for Windows is even better.

Take a tour of SKYCOM™ 2.0 on the World Wide Web at http://www.fuentez.com/SKYCOM.

Fuentez Systems Concepts, Inc.
Department 700
11781 Lee Jackson Highway
Fairfax, Virginia 22033
Voice: 703-273-1447
E-Mail: SKYCOM@fuentez.com

$59.95

Plus $4.00 Postage & Handling.
VA residents add 4.5% sales tax.
Visa and Mastercard accepted.

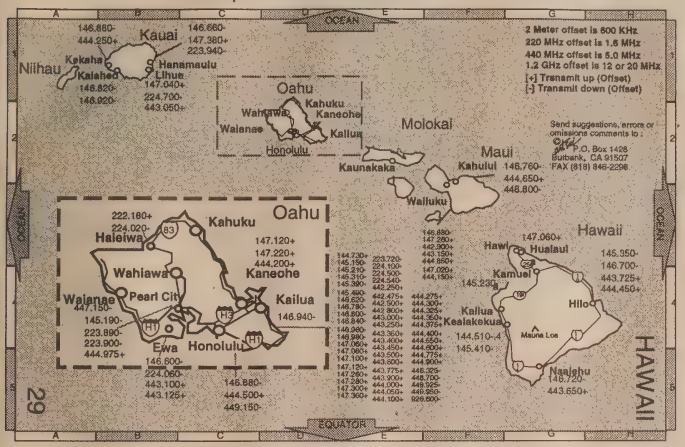
Orders: 1-800-989-1447, M-F 8 a.m. to 5 p.m. EST

Copyright 1995 Fuentez Systems Concepts, Inc. SKYCOM is a trademark of Engineering Systems, Inc.
Windows is a registered trademark of Microsoft Corporation.

A Must Have

U.S. REPEATER MAPBOOK and OPEN Listings™

A PERFECT travelling companion. The Mapbook contains locations of thousands upon thousands of open repeaters throughout the U.S., Canada and Mexico. This repeater MAPbook in vastly superior to those "directory" style books that are almost impossible to read.



These DETAILED maps show all highways and major cities in each state. If you travel anywhere in the United States, this MAPbook will be the best investment you ever made!!

NEW in this edition are table listings of every known open repeater in each state. You get the best of both worlds, Maps and "directory" style listings.

10,6,2 meter, 220, 440 MHz and 1.2 GHz repeaters are shown.

$ 9.95

CD-ROM CALLSIGN DATABASE & OPEN REPEATERS with U.S. Repeater MAPbook

HAM db artsci Callsign database

Get the U.S. Repeater Mapbook and the CD-ROM with U.S. amateur callsign database and open repeater database for DOS, Windows and MACINTOSH.

$ 29.95

Internet: http://www.earthlink.net/~artsci
e-mail: artsci@artscipub.com

artsci **Artsci Inc. (818) 843-4080**
Fax (818) 846-2298
P.O. Box 1428, Burbank, CA 91507

Name_____

Address_____

City_____ State ____ Zip _____

Phone (____) -

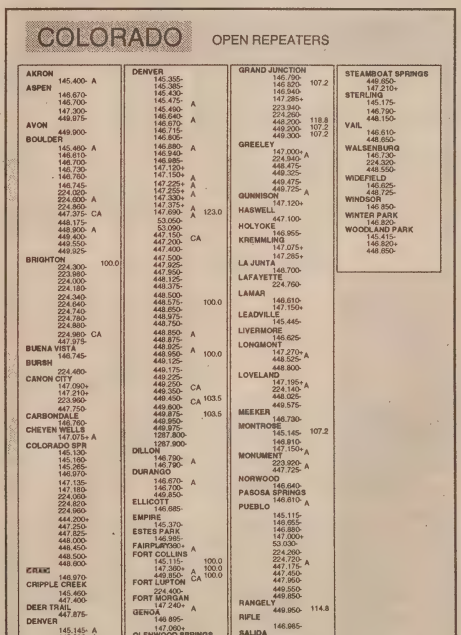
Card # _____ Exp _____

☐ **U.S. Repeater mapbook - $ 9.95**
☐ **CD-ROM Callsign / Mapbook - $29.95**

Total price of merchandise..... $_____
Sales Tax (Calif. only) 8.25%.. $_____
Shipping..... $ 4.00

Total Enclosure..... $_____

Visa/MasterCharge/Discover & AX SORRY No COD orders
$4.00 Shipping in U.S. $10.00 outside



COLORADO OPEN REPEATERS

AKRON
145.400- A
ASPEN
146.670-
146.700-
147.300-
449.075-
AVON
449.000-
BOULDER
145.460- A
146.610-
146.700
146.730-
146.760-
146.745-
224.020- A
224.600- A
224.900-
447.375- CA
448.175-
448.900- A
449.400-
449.550-
449.925-
BRIGHTON 100.0
224.300-
223.980-
224.000-
224.180-
224.340-
224.040-
224.740-
224.780-
224.880-
224.980- CA
447.975-
BUENA VISTA
146.745-
BURBN
224.480-
CANON CITY
147.090+
147.210+
223.960-
447.750-
CARBONDALE
146.760-
CHEYEN WELLS
147.075+ A
COLORADO SPR
145.130-
145.180-
145.265-
146.970-
147.135-
147.180-
224.060-
224.820-
224.960-
444.200+
447.250-
447.825-
448.000-
448.450-
448.550-
448.800-
CREEK
146.970
CRIPPLE CREEK
145.460-
447.400-
DEER TRAIL
447.875-
DENVER
145.145- A
145.225- A
145.250- A
145.280-
145.310-

DENVER
145.355-
145.385-
145.430-
145.475- A
145.490-
146.640- A
146.670-
146.715-
146.805-
146.880- A
146.940-
146.985-
147.120+
147.150- A
147.225+ A
147.255+ A
147.330+ A
147.375+ A 123.0
147.690- A
53.050-
53.090-
447.150- CA
447.200-
447.400-
447.500-
447.925-
448.500-
448.575- 100.0
448.650-
448.975-
448.750-
448.850- A
448.875-
448.925- A 100.0
448.950-
449.125-
449.175-
449.225-
449.250- CA
449.350-
449.450- CA 103.5
449.900-
449.875-
449.950-
449.975-
1287.800-
1287.900-
DILLON
146.790- A
146.790-
DURANGO
146.670- A
146.790-
449.850-
ELLICOTT
146.685-
EMPIRE
145.370-
ESTES PARK
146.985-
FAIRPLAY 090- A
FORT COLLINS
145.115- 100.0
147.300+ A 100.0
449.850- CA 100.0
FORT LUPTON
224.400-
FORT MORGAN
147.240+ A
GENOA
146.895-
147.000+
GLENWOOD SPRINGS
146.880- A 107.2
447.100-
449.800- 167.2

GRAND JUNCTION
146.790-
146.820- 107.2
146.940-
147.285+
223.940-
224.260- 118.8
448.200- 107.2
449.200- 107.2
449.300-
GREELEY
147.000+ A
224.940- A
448.475-
449.525-
449.475-
447.725- A
GUNNISON
147.120+
HASWELL
447.100-
HOLYOKE
146.955-
KREMMLING
147.075+
147.285+
LA JUNTA
146.700-
LAFAYETTE
224.760-
LAMAR
146.610-
147.150+
LEADVILLE
145.445-
LIVERMORE
146.625-
LONGMONT
147.270+ A
448.525- A
448.800-
LOVELAND
147.195+ A
224.140- A
448.025-
449.575-
MEEKER
146.730-
MONTROSE
145.145- 107.2
146.910-
147.150+ A
MONUMENT
223.920-
447.725- A
NORWOOD
146.640-
PASOSA SPRINGS
146.610- A
PUEBLO
145.115-
146.955-
146.880-
147.000+
53.030-
224.260-
224.720- A
447.175- A
447.450-
447.950-
449.550-
449.850-
RANGELY
449.950- 114.8
RIFLE
146.985-
SALIDA
147.285+
SPRINGFIELD
146.640-

STEAMBOAT SPRINGS
449.650-
147.210+
STERLING
145.175-
146.790-
448.150-
VAIL
146.610-
448.650-
WALSENBURG
146.730-
224.320-
448.550-
WIDEFIELD
146.625-
448.725-
WINDSOR
146.850-
WINTER PARK
146.850-
WOODLAND PARK
145.415-
146.820-
448.850-

The U.S. Repeater MAPbook and CD-ROM Callsign / MAPbook is available in your local Amateur Radio store or at most major book stores nationwide.

Full / Half Duplex Autopatch

Make phone calls from your Dual Band radio

An Affordable Autopatch packed with incredible features !

Features:

* *Automatic CW identifier*
  (The Autopatch will automatically send call sign in CW when activated)
* *Programmable time out function*
  (If you accidentally get out of range, the autopatch will time out and hang up the phone line)
* *User selectable password*
  (Select personal password up to 16 digits to activate your autopatch)
* *Reverse patch*
  (If you choose so, it will page you when your phone rings)
* *Adjustable Volume*
* *Easy installation*
* *Compact size 1 X 3 3/8 X 5/8"*

Only $109.00

Requires: *Dual Band transceiver, 12v DC, mike connector, phone line*

DTMF Controller & Touch Tone Decoder

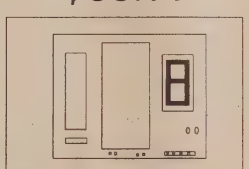
Get 2 features for the price of 1!

DTMF Controller

$65.99

* Manual override reset
* Activation/deactivation code
* Wrong number reset
* Drives 2 relays each with separate access codes

Optional PC Interface Only $24.00
Connects through IBM Parallel Printer Port
Automatically Logs the Time/Date/Number



DTMF Decoder

* Decodes and stores 80 digits
* Playback scrolling display
* High speed decoder (decodes up to 25 tones per second).
* Operates on 7.2 to 15v power
* Only 1.7 x1.8" in size
* Wired and tested

Call (214)991-3900, Visa/MC Accepted, Add $5.99 S&H, +8.25% TX
R F Electronics, 14604 Vintage, Addison, TX 75244

E.S.R.C.
P.O. Box 1192
DELRAY BEACH, FL
33447-1192

407-735-3397

WE BUY, SELL, SWAP ALL TYPES OF ELECTRON TUBES. TRY US FOR THOSE HARD TO FIND OBSOLETE TUBE TYPES.

6LQ6/6JE6C	$ 40.00	**6146W**	**$20.00**
Extra Special, Very Limited Supply		Sylvania (ECG-Philips)	
6AZ8	$ 8.00	6DJ8	$ 6.00
6DC6	$ 5.00	6EA8	$ 4.00
12BY7A	$ 8.00	6146B	$ 12.00
811A	$ 12.00	**572B**	**$ 35.00**
3-500Z Graphite	$100.00	6550	$ 12.00
KT88	$ 14.00		

YOUR JUDGMENT: ADD $3-5 SHIPPING. FLORIDA RESIDENTS ADD SALES TAX.

INSURANCE
Computer & Radio Equipment

HAMSURE coverage follows your equipment wherever you take it. Theft from vehicles, earthquake, water damage and all other hazards including surges. Insure all your equipment and accessories (except towers and antennas but including rotors), media and purchased software.

Low Premium Low Deductible

HAMSURE
7901 Laguna Lane
Orland Park, IL 60462
800-888-7702 Anytime
E mail: hamsure @ aol.com

VISA *Available only in the 48 continuous states*

Looking for a particular advertiser? Check our convenient Display Advertisers' Index.

BRAIN POWER

SG-500 SMART POWER CUBE™

Microprocessor Controlled Linear Amplifier. 1.8 – 30 MHz*

The SG-500 SmartPowerCube produces tremendous power–nearly as much as a 1 kW amplifier. Yet it requires less than one cubic foot of space. Electronic brain power makes this possible. The SG-500 is an intelligent–microprocessor controlled–high powered linear amplifier, designed with high efficiency transistors. Its electronic brain constantly monitors your HF-SSB's activities, power needs and antenna condition, and automatically–in less than 15 milliseconds–selects the right broadband filter. And it's designed to reliably produce, essentially unattended, in the most demanding conditions. For maximum power–intelligent power–at low cost, the SG-500 SmartPowerCube is just the amplifier you need. Call us for details.

Power Output:
SSB: 500 watts PEP
CW: 500 watts 10 Min. (no fan)
500 watts Unlimited with fan
AM: 250 watts Carrier max.
Band Switching: Fully Automatic
Protection: Input overdrive, Over current, Over temperature

***Export model: 1.8 – 30 MHz., U.S.: 1.8 – 24 MHz. Pending FCC approval.**

1-800-259-7331

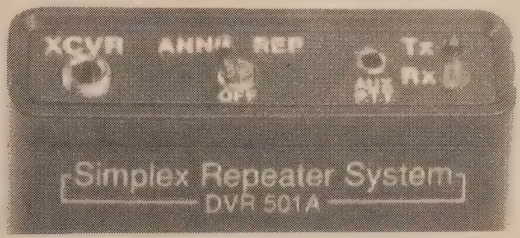
SGC
NO COMPROMISE COMMUNICATIONS

MADE IN USA

The SGC Building 13737 S.E. 26th Street, Box 3526 Bellevue, Washington 98009 USA (206) 746-6310 Fax: (206) 746-6384

Complete Relay System - Handie Talkie Ready

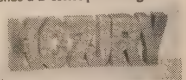
Icom, Motorola, Yaesu ready



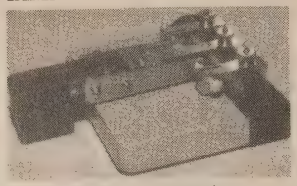
MasterCard, CertCheq, M.O. phone (204) 661-6859

US Digital Ltd 380 Rougeau Ave Winnipeg, MB Canada R2C 4A2
For more info, call our FAX Bulletin Board 1-204-667-9894 press #5555 push start

MARS, RACES, SKYWARN, CD, PATCHES, DECALS, CAPS
Custom Name–Call Caps & more. Call or write for catalog sheets and full color photo.
CAPS, Unlimited
P.O. Box 460118A
Garland, TX 75046
(214) 276-0413

The Perfect **Holiday Gift for Hams!**
Send Your friends a Desktop Callsign
Only $8.00
Includes Shipping!
Send Check or Money Order Today!
Shack Attack
kb7vrd@aol.com


• Custom-cut from 3/4" thick alder wood
• Large two-inch tall letters. Gloss finish
• Will ship direct. Satisfaction Guaranteed!
51 W Center St, Room 325, Orem, UT 84057

IAMBIC PADDLE ~ Model 502

• Adjustable contact spacing
• Adjustable paddle tension
• Silver Plated contacts
• Nonskid Rubber Feet
• Total weight 2.2 pounds
• Precision Bearings
• $74.95 plus $5.50 shipping
• Made in USA
ENVIROTRONIC INC. (612) 633-8551
526 Silver Lake RD - St. Paul, MN 55112

CodeBoy ELECTRONIC KEYER

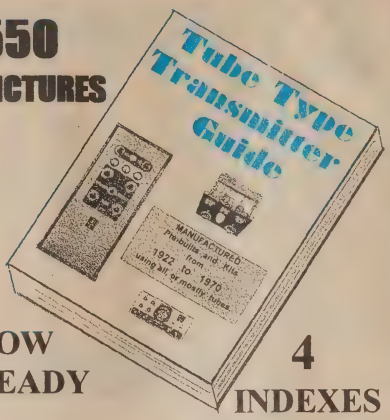
Very Small Very Smooth!
1 3/16 H x 3 1/8 W x 2 7/8 D 3 1/2 oz.

FEATURES:
•Speed Range 10 to 40 wpm •Calibrated Speed Control •Iambic A or B Style Operation• DIT and DAH memory •Space and Weight Compensation •Paddle and Straight Key or Bug Input •Autospace Feature on Straight Key and Bug Input •De-Bouncing on Key and Bug Input •Mosfet Keying Transistor Output •Built-in Long Life Battery •Based on RAC C1A Keyer Chip•Attractive Aluminum Case, Dark Brown & Eggshell White with Black Lettering

DESCRIPTION	STOCK#	PRICE
Complete Kit Including Battery (Less Paddle)	A1K	$ 37.95
Complete Keyer Wired and Tested	A1W	$ 54.95
Printed Circuit Board Kit (A1K less case)	BK-167	$ 24.95
C1S CMOS Keyer Chip	68-3	$ 14.95
C1A CMOS Keyer Chip	68-1	$ 14.95
Vibroplex Brass Racer Iambic Paddle	VP145	$ CALL
Vibroplex Iambic Deluxe Paddle (Chrome)	VP130	$ CALL

Shipping and Handling $ 3.75
PA Residents add 6% Sales Tax
Charge Card Orders Under $25.00 add 5%

RAC
Radio Adventures Corp. Telephone: (814) 677-7221
P.O. Box 339 Fax: (814)677-8456
Seneca, PA 16346 E-Mail: rac@usa.net

550 PICTURES


NOW READY
4 INDEXES

More than 104 Mfgs. 550 Transmitters & transceivers 61 Linears. Plus: VFOs Modulators P. Supplies Tuners & more

A GUIDE FOR TUBE TYPE 1922 - 1970 TRANSMITTERS TRANSCEIVERS AND MORE

****Boat Anchors Galore and more****

4 great indexes :
(1) By Manufacturer, (2) By Model Number
(3) By Year, (4) By Final Tube Type

Price $17.95 includes U.S. Postage.
$19.95 Canada or Mex.
CA residents add TAX.
Shipping weight 21 Oz.

Sound Values
P.O. BOX 9
AUBURN, CA
95604

PLEASE MENTION *AMATEUR RADIO TRADER* WITH YOUR ORDER.

BOB SIMPLETON'S GUIDE TO EMERGENCY ANTENNAS

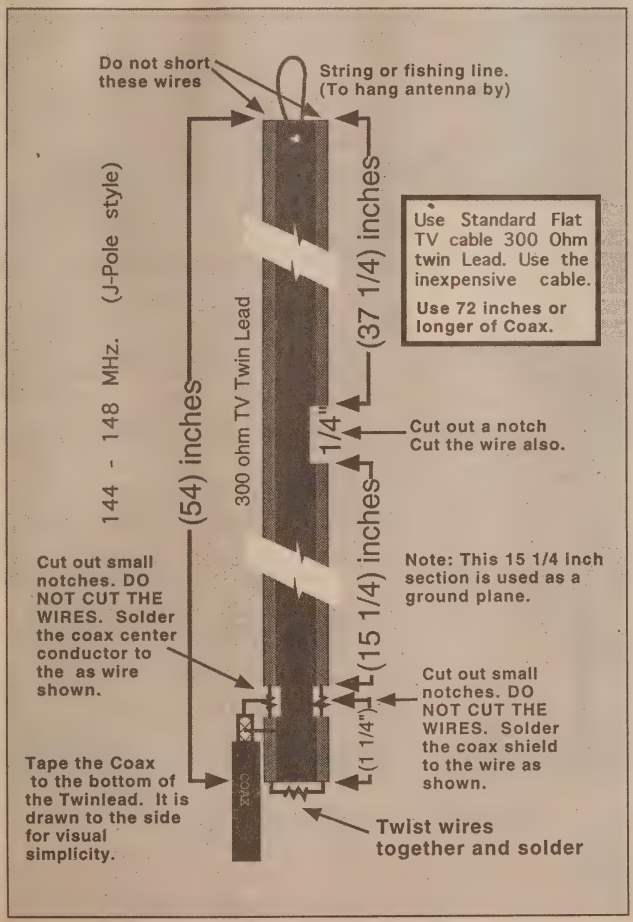
brought to you by **Amateur Radio Trader**

Emergency antennas are extremely valuable when you need them. You don't need to suffer an earthquake or storm damage to make use of an "emergency" antenna. You may simply be in a hotel room on vacation or inside a building helping to test your cities' disaster preparedness system. Whatever the reason, a handy antenna can really save the day.

Once again we will work with the 2 meter band (144-147 MHz). This is the most popular band around the country. This J-POLE antenna can be modified to operate with any band by changing the length of the elements. It is called a J-Pole because the wiring looks like a "J".

This emergency antenna is constructed out of 300 ohm TV antenna twin lead. You old timers will remember this type of antenna wire. Every home in America used this type of wire to connect its TV set to the antenna on the roof. Remember the rabbit ear antenna that would sit on top of the TV? It also used 300 Ohm twin lead.

Use an old piece of twin lead that you may have around the house or run over to your local hardware store and pick up 6 feet.


Do not short these wires
String or fishing line. (To hang antenna by)
144 - 148 MHz. (J-Pole style)
(54) inches
300 ohm TV Twin Lead
(37 1/4) inches
Use Standard Flat TV cable 300 Ohm twin Lead. Use the inexpensive cable.
Use 72 inches or longer of Coax.
1/4"
Cut out a notch Cut the wire also.
(15 1/4) inches
Note: This 15 1/4 inch section is used as a ground plane.
Cut out small notches. DO NOT CUT THE WIRES. Solder the coax center conductor to the as wire shown.
(1 1/4")
Cut out small notches. DO NOT CUT THE WIRES. Solder the coax shield to the wire as shown.
Tape the Coax to the bottom of the Twinlead. It is drawn to the side for visual simplicity.
COAX
Twist wires together and solder

Use a pair of wire cutters or scissors and remove the insulation as shown. You only need to cut wire in one place. BE CAREFUL and only remove the insulation from the points where the coax connects to the twin lead.

After you have the insulation removed, twist the two sides of the twin leads together as shown (at the bottom of the antenna). Place some solder at the connection to insure full contact.

Connect the coax to the twin lead as shown. It should be connected 1 & 1/4" from the bottom. Use solder at these points also.

You may tape the coax to the twin lead to prevent stress on the solder points. Tape will also help prevent the wires from rusting.

Cut the twin lead to exactly 54" from top to bottom. Make sure you have cut the ground side notch 15 & 1/4" from the ground connection point.

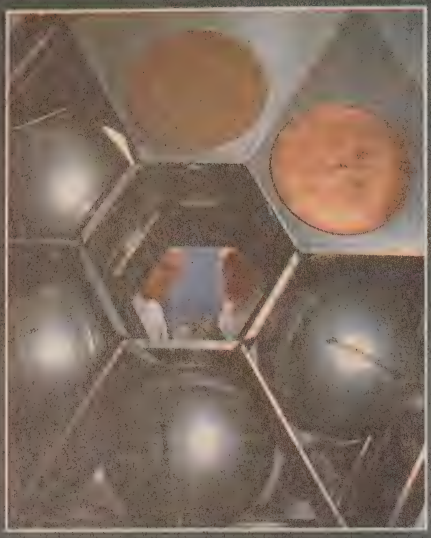
Place a loop of plastic or other no conducting rope at the top of the antenna to hang from the ceiling.

This antenna will have a gain of at least 3 db.

Remember to have fun and be prepared. 73

Simpleton's Guides © 1996 artsci inc. all rights reserved (818) 843-4080 URL - http://www.earthlink.net/~artsci

Phase 3D Can't Fly Without *You!*



As you read these words, Phase 3D, the most ambitious satellite in the history of Amateur Radio, is being assembled in Orlando, Florida. The clock is ticking away to a 1996 launch.

But there's a problem...

While engineers and technicians scramble to meet their deadlines there's a problem looming. Unlike other amateur satellites that flew for little or no cost, Phase 3D is too big to be anything but a "paying customer" onboard its Ariane rocket. Phase 3D's ticket into space is currently pegged at 1.9 million dollars.

Why should you care?

Even if you've never operated through a satellite before, *you* have a stake in Phase 3D. Powerful commercial interests are chipping away at our precious VHF, UHF and microwave bands. Phase 3D will prove to the world that amateurs are still at the cutting edge of technology...and that we deserve to occupy this valuable spectrum!

And if you *do* operate satellites—or even if you're just *thinking* about it—you're in for a treat with Phase 3D...

- Large antennas and high power will *NOT* be required. You'll be able to work satellite DX from your backyard, patio or attic!
- Phase 3D will appear at the same point in the sky every 48 hours. You'll always know when it's available. No more tracking hassles or complicated software.
- Choose the band that's right for you. Phase 3D will offer uplinks and downlinks from 15 meters to 24 GHz.
- Powerful digital capabilities will be available for satellite packet.

Contribute *today* to the Phase 3D satellite fund!

Don't let Phase 3D sit on the launch pad.

Its future is in your hands.

YES! I want to support AMSAT's Phase 3D Project Team as they prepare for launch. Here is my contribution to help make it happen. (Voluntary contributions to ARRL are tax-deductible in accordance with Section 501(c)(3) of the Internal Revenue Code.)

☐ $15 ☐ $25 ☐ $50 ☐ $100 ☐ Other $ _____

☐ Enclosed is my check, payable to ARRL Satellite Fund.

☐ Please charge my credit card: ☐ MasterCard ☐ VISA ☐ AMEX ☐ Discover

Card Number _____ Expires _____

Authorized Signature _____

Name _____

Call Sign _____

Address _____

City _____ State _____ Zip _____

Send to: AmSat, 850 Sligo Ave., Ste. 600, Silver Spring, MD 20910-4703

HAM PRICE GUIDE

Xmtrs, Rcvrs, Xcvrs, Mics, Antennas, Tuners, Linears, Power Supplies, & Accessories +++

Old - New - Tube Type - Solid State

With an identification index - from model numbers (decipher those cryptic classified ads)

OVER *3000* items of ham gear identified by model names and/or numbers

OVER *6000* real / dated prices on

OVER *2000* different priced items (including condition and extra accessories, where that information was available)

Prices are actual ad, sale or auction prices, with a few noted exceptions.

$ 9.95 including US postage

$11.50 Canada, $14.95 other countries.

for California shipments add California sales tax.

SOUND VALUES P.O. BOX 9, Auburn, CA 95604

PLEASE MENTION *AMATEUR RADIO TRADER* WITH YOUR ORDER.

NRS NORM'S ROTOR SERVICE
5263 Agro Drive - Frederick, MD 21703
(301) 874-5885

We Rebuild Rotors Plus:
• Rebuilt Rotors for Sale • Parts for U.S. Built Rotors • We Buy Used U.S. Rotors/Controls for CASH!

NORM JEWELER K3LYW

Display Your Ham License!

New! Callsign License Plaque

- Your call displayed in 2" laser-cut letters
- Letters can be upgraded when you do!
- Meet FCC Station Requirements Sec 97.3
- Great gift idea! Will ship direct
- Satisfaction Guaranteed!

"My plaque is the centerpiece of my shack" -KO6KU

Only $19.95 + $3.50 s/h

Shack Attack *Call or Write Today!*

800 573-7388

51 W Center St. Room 325, Orem, UT 84057

Enjoy monitoring your favorite repeater in peace, without listening to the squaks and squeals of intermod.

DCI-146-4H 2 Meter Band Pass Filter (SO-239)	$ 89 ppd.
DCI-223.5-3H 223 MHz Band Pass Filter (SO-239)	$ 89 ppd.
DCI-445-10C 440 MHz Band Pass Filter (N)	$109 ppd.

Custom tuning available from 130 to 900 MHz, add $35.00

The DCI-146-4H and DCI-223.5-3H can be upgraded to type N female connectors for $10.00 more. We pay postage in U.S. and Canada. C.O.D. add $5.00.
VISA/MC accepted.
Idaho residents add 5% tax.

R.C.K.
465 Croft Drive
Idaho Falls, ID 83401-4419
(208) 522-2839

S.A.S.E. for full color brochure.

9th Annual
YORK SPRINGFEST
AMATEUR RADIO HAMFEST AND COMPUTER SHOW

March 17, 1996 - 8:00 AM - 4:00 PM

DOVER FIRE HALL, DOVER, PA.

- ARRL Approved
- Event Held Rain or Shine
- Two Floors of Indoor Exhibitors
- Tailgating - Flea Market Area
- VE Testing Site
- Admission $3.00
- Children Under 12 Free
- Free Parking
- Over-Flow Parking w/Free Shuttle Service
- Talk-In 146.37/.97

For Advance Table Registration Contact:
YORK SPRINGFEST
P.O. BOX 266
EAST BERLIN, PA 17316-0266
Or For Additional Information Call:
Ted Rodes, KE3SO, at:
(717) 259-8063
FAX: (717) 259-7870

Need to expand your horizons?

Get A.R.T.!

We reach 100,000 hams per month.

1-800-77-HAM-AD

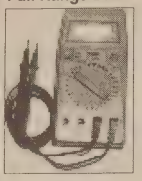
(1-800-774-2623)

RA Enterprises. . . A real surplus store!

ORDER HOT LINE
8:00 am — 4:30 pm PST
Monday — Friday
1-800-801-0230

When it comes to bargains, this is the place!

Digitek DT-3800 Full Range DMM **$22 each 10+ $20 ea.**

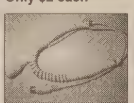


- 5DCV ranges ± 0.5 %
- 5 ACV ranges ±0.8%
- 7 DCA ranges ±0.5%
- 7 ACA ranges ±1%
- 6 Ohms ranges ±0.8%
- Diode & Transistor Tester
- Continuity Buzzer
- Leads, manual and battery

New — In the box! (RA00039)

Keyboard Cable KB-10

Only $2 each (RA00052)



New, in the box from The Info Cable. Ideal for IBM PC XT/AT or other compatible keyboards.

DTC CONTROLLER CARDS

NEW - In Box - 30-day Warranty!
Order 20+ and get a 25% discount

Description	Interface	Description	Price
3250AS	SCSI	8-bit Hard/Floppy	$30
5150XL	MFM	8-bit Hard Drive Only	$15
5160X	RLL	8-bit Hard Drive Only	$10
5187	RLL	16-bit 2:1 Hard Drive Only	$10
5280	MFM	16-bit 2:1 Hard Drive/Floppy	$15
5287	RLL	16-bit 2:1 Hard Drive/Floppy	$15
7180	MFM	16-bit 1:1 Hard Drive Only	$15
7187	RLL	16-bit 1:1 Hard Drive Only	$10
7287	RLL	16-bit 1:1 Hard Drive/Floppy	$15

SPECIAL

8-bit SCSI hard drive only.
NEW with cable and manual
$17.50 each or 5 for 45.00 (RA00034)

NEW 16-bit IDE Controller Cards

ONLY $5.00 each (RA00040)
Hard drive only with cable and manual

SPECIAL EXTRA DISCOUNT ITEMS

- Class 2 transformer with female plug-in. Input 120Vac 60Hz. Output 8.5Vac 1.1A (RA00079)
  ONLY $3.50 each of 10 for $25
- DAP Plastic Mender — Repairs tears and cracks in vinyl or canvas upholstery and inflatables. It's permanent, flexible and waterproof. (RA00077)
  Box of 12 for ONLY $20
- **Epoxy Patch Kits** — Dexter Hysol #608 clear, 1.40 ounce resin, 1.40 ounce hardener.Sets in only 5min. (RA00050)
  $3 each or Box of 10 for ONLY $22.50

Block and Tackle $15
Maximum capacity of 750 lbs. These are priced to move quickly. (RA00028)

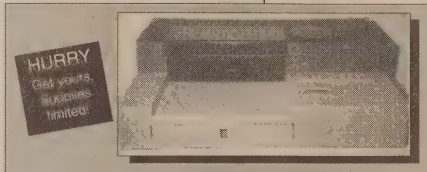
Noreico Heat Lamp
Only $10 each or 5 for $40
Fits in any regular light socket and can run off AC or DC. (RA00075)

DOS 6.0 — 1.44 Diskettes
NEW! Still in the box with the manual.
ONLY $19 (RA00067)

Centrifugal Blower Fan Only. . . $10each or 5 for $9 each
27Vdc, 10,000rpm, 4.0 Amp (RA00078)

Max Flow DC Brushless Fan $5.00 each or 10 for $39.00 (RA00076)
2-5/16" x 2-5/16" x 1" Computer Plugs, 12V, 0.10A

Zircon Electra Level
ONLY $10
This is a new electronic water level that you can use for any project you have that you need to make sure it's level — even around corners. Ideal for business or at home. (RA00065)



HP 7550A 8-pen Automatic Sheet Feed Plotter (RA00066)

Tested good! Serial and HP-IB interface

- High throughput
- Ideal for high volume, shared environments
- Uses drafting media and pens
- Requires minimum operator supervision
- Accepts A3/B- and A4/A-size paper
- No manual and no exit tray

ONLY $195

High-Grade Shielded Cables

- 6 foot parallel printer cable. 45° angle DB25, ground wire on centronics connector. $5 each (RA00033)
- 25 foot DB25F to DB25M with 25 pins connected straight through. $8 each (RA00031).
- 100 foot DB25F to DB25M with all 25 pins connected straight through. $15 each (RA00029)

Sperry 8-Bit CGA Card Only $10 ea or $7.50 for 20+
- New, in the box F4764 short-port color interface card (RA00061)

IBM MFM Controller Card

$12.50 each or 10 for $100
16-bit, 2:1 interleave hard and floppy controller card (RA00075)

Hard Drive Mounting Kits (RA00048)
$2.50 each, 20+ $1.50 each
Mounts 3-1/2" drive into a 5-1/4 " drive space.

Hard Drive Bible Edition VII
$29 each (RA00047)
NEW, Still in the box. This is the definitive reference source for hard drives. It includes CD-ROM and video tape.Looks great on your bookshelf.

LOTUS Organizer

Personal organizer: phone numbers, dates, etc.
ONLY $10 each (RA00083)

QUICKEN — Special Edition For Windows

ONLY $15 each (RA00082)

DOS 6.2 — 1.44 Diskettes ONLY
ONLY $19 (RA00038)

BLOW-OUT SALE Laser Labels

210 4" x 3-1/3" Shipping Labels
- $2.00 each or 12 pkgs $20 (RA00055)

510 2-3/4" x 1" Clear Matte Labels
- $2.00 each or 12 pkgs $20 (RA00054)

HP Net Server Assistant

$12.50 each, 20+ $10.00 ea. (RA00049)
You've got to get this one while they last.

We Accept Discover Card, VISA, Mastercard, Check, Money Order and COD Orders.

DISCOVER NOVUS VISA MasterCard

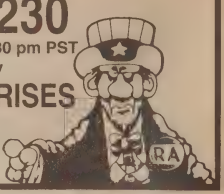
Special ORDER HOT LINE ONLY

1-800-801-0230

Order Line Hours: 8:00 am — 4:30 pm PST
Monday through Friday

We always have great in-store specials. Drop on by!

RA ENTERPRISES
2260 De La Cruz Blvd.
Santa Clara, CA 95050
Tel: 408-986-8286
Fax: 408-986-1009

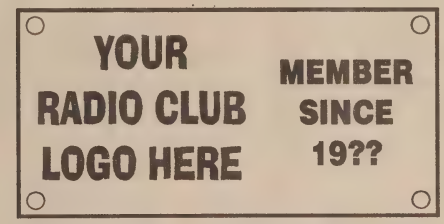


This Advertisement is our catalog. All items subject to prior sale. Minimum order $10.00 plus shipping and handling charges. All orders shipped FOB Santa Clara, CA via UPS ONLY. Ground shipping unless otherwise requested.There is a $5.00 UPS charge added to COD orders. All items are sold as-is, and no warranty is expressed or implied unless otherwise noted.

JOIN THE CLUBHOUSE!

Beep, beep, beep - back the truck up. You're already a member of the club. So its time you let other prospective members know about the fun you're having. So check out the cool club stuff below, advertise the club, and who knows? The Board of Directors may think you're such a promoter you'll work your way to

CHARTER MEMBERSHIP!!??



LICENSE PLATES $19.95
SHIPPING 3.00

Artwork Set-up, $30.00 to $120.00
(Must see your logo for exact quote)

CLUB LOGO DECALS
$5.00 EA

Tees $16.95
S & H 3.00

We also have banners, ready-to-apply lettering, magnetic signs, and novelty street signs. CALL 800-579-0959 for your FREE CATALOG or.....

ORDER FROM:
OLD WEST GRAPHICS
749 S. LEMAY. STE. A3-355
FT. COLLINS, CO 80524-3251

Here's what hams are saying about the new Pocket Guide to Collins Amateur Radio Equipment...

"A very classy production... this is another book that will be around for a long, long time. I highly recommend this book."
–Electric Radio

"...an excellent reference compendium for both newcomer and pro..."
–Collins Monthly Journal

"WOW! What a nice little book..."
–Warren Hall, K0ZQD

"WOW! WOW! What information! Photos! Drawings!"
–Richard Lorenzen, WA0AKG

"An outstanding piece of work—truly a quality document."
–John Van Egmond, KI6ZS

"I am highly pleased with the quality of this book in every respect..."
Jim Young, KB8QHK

"Just received the book- EXCELLENT, very professional."
–Tony Standen, G0UKY

"This is obviously a labor of love with perfection a high priority in every respect."
–Stephen R. Peake, W4OQB

A "must have" for Collins users and collectors and all vintage radio enthusiasts. If you haven't bought your copy don't wait much longer—when they're gone they're all gone!

- 108 pages of illustrated, descriptive listings, technical information, connectors, tube charts, rear panel diagrams, mechanical filters and more.
- Digital-laser scanned photographs of every piece of Collins ham gear manufactured since the second World War- shot exclusively for this book.
- Professionally designed, typeset and lithographed on heavy paper.
- Pocket Size ■ Laminated Cover ■ Lay-Flat Wire Binding
- All Receivers, Transmitters, Transceivers and Accessories are clearly illustrated and described. ■ Much, much more material than is in "the manuals."

The Pocket Guide to Collins Amateur Radio Equipment 1946-1980
Only $19.95 each plus $3 P&H USA
($4 to Canada and Mexico, $6 Foreign by air.)
Texas residents must add sales tax.

Checks or Money Orders:
Trinity Graphics Systems
5402 ½ Morningside • Dept. ART2
Dallas, TX 75206

Telephone Visa/MC Orders:
Sound Impressions
1-800-233-0484 • (214) 288-0484
9am - 8pm (CT) or 24 hour V-Mail
24 hr. FAX (214) 216-9994

FELLOWSHIP-TEACHING

Reaching Amateur Radio
MARK 16:15

INTERCESSORY PRAYERS

Operators For Christ
JOHN 14:6

HELPING OTHERS **(207) 683-2031** NEWSLETTERS

HAM RADIO GOSPEL TRACTS, FREE:
YOUTH LEADERS NEEDED FOR NATIONAL OUTREACH
SEND # S.A.S.E. WITH CALL LETTERS

R.F. BOHMER, N1GDP RAR-OFC MINISTRIES
P. O. BOX 8 - HARMONY, MAINE 04942

Russian Phrases for Amateur Radio

The Foundation for Global Community (formerly Beyond War) is offering a 20-page syllabus compiled during the Cold War by Len Traubman, W6HJK, to help amateurs better communicate with their Soviet colleagues. A 90-minute audio cassette has been added to help with the pronunciation.

The booklet provides:
- English words and phrases for QSOs
- Russian translations for QSOs
- English translation to assist in pronouncing Russian

The syllabus follows the natural sequence of a QSO. It contains additional sections on the Russian alphabet, phonetics, CW characters, numerals and given names. Suggestions are made for addressing mail to the Commonwealth of the Independent States.

The syllabus and audio cassette are available for only $6 ($8 internationally) each. Checks can be made payable to **Foundation for Global Community** (formerly Beyond War), the original sponsor and and an educational endeavor to build global dialogue and cooperation for benefit of all.

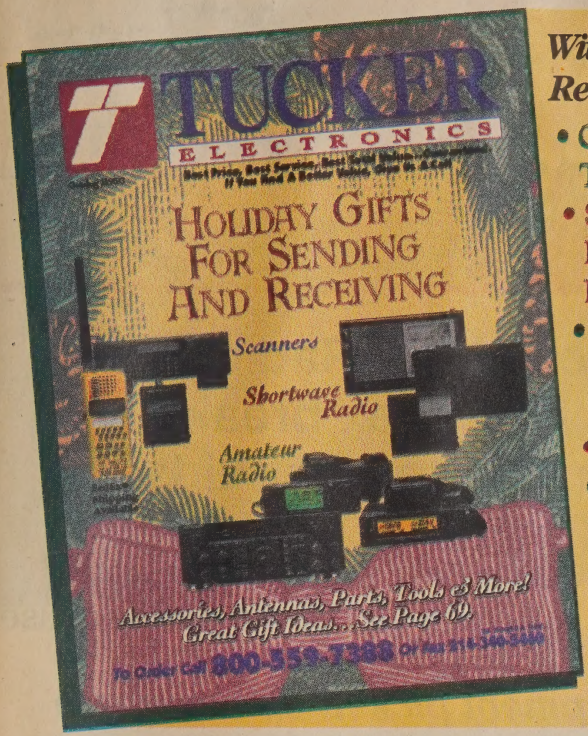
Requests should be sent to:

Russian Phrases for Amateur Radio
ATTN Len Traubman, W6HJK
1448 Cedarwood Drive
San Mateo, CA 94403
Voice: (415) 574-8303
FAX: (415) 573-1217

"Together we are building a global community."

We Want To Send You Our Best...

Holiday Survival Guide



With Tucker, You'll Always Receive The Best...

- Customer Service and Toll-Free Technical Support in the Business
- Selection of Amateur and Shortwave Radios, Scanners, Computers, Test Equipment, Books, and Accessories
- Manufacturer's Products From Around the World, Including Kenwood and Icom!
- Prices (Period!)
- New & Pre-Owned Equipment
- Trade-In Value
- FREE 100 - 150 Page Catalogs

and The Best Holiday Wishes to You and Your Family... From Our Family at Tucker!

Call Toll Free: 800-559-7388

TUCKER ELECTRONICS

1717 Reserve Street, Garland, TX 75042 • P.O. Box 551419, Dallas, TX 75355-1419 • In Dallas: 214-348-8800 • Fax 24 hs. in English, Español, Francais, und auf Deutsch: 214-340-5460

We're Proud To Carry These Full Lines:

SANGEAN · DIAMOND · SONY · bencher · GRUNDIG · ROHN TOWERS · AMIDON · ASTRON CORPORATION · hy-gain · oro-am · hofi · COMET · valor · HUSTLER · EMOTO · Bearcat · AEA · HEIL · Jim · JPS · CREATE · AOR · MFJ · ICOM · Kantronics · LAKEVIEW · OPTOELECTRONICS · Cushcraft · KENWOOD

DONATE YOUR RADIO

SITTING ON A TAX WRITE-OFF?

Turn your excess Ham Radios and related items into a tax break for you and learning tool for kids.

Donate your radio or related gear to an IRS approved 501 (c)(3) charity. Get the tax credit and help a worthy cause.

Call 24 Hours A Day

Equipment picked up anywhere or shipping arranged.

Radios you can write off - kids you can't.

Call (516) 674-4072 FAX (516) 674-9600

WB2JKJ

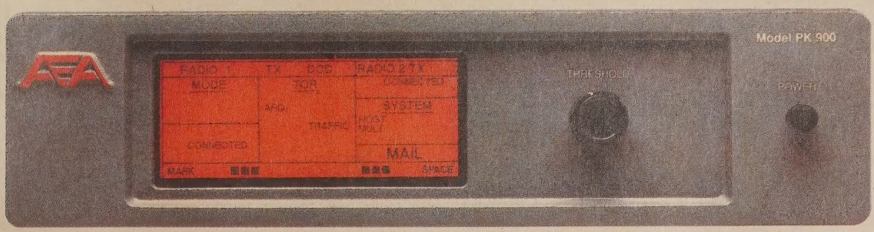
THE RADIO CLUB OF JUNIOR HIGH SCHOOL 22

P.O. Box 1052
New York, NY 10002

Bringing Communication to Education Since 1980

Can your multi-mode adapt to the changing world?

Ours can.



It seems good hardware is becoming an endangered pecies in multi-modes. Not so with AEA's PK-900. It is the ardware that allows the PK-900 to evolve, to grow as you o. We've given the PK-900 three dedicated processors and n innovative circuit design for power and flexibility.

Switch between radio ports with a keystroke using he dual simultaneous ports. Gateway from packet to MTOR, packet to PACTOR, and packet to packet. Bounce packets off satellites using the ptional 9600 bps modem.

The PK-900 has the same eight-pole Chebyshev bandpass filter as the acclaimed PK-232MBX for superior HF performance. It has hardware-memory ARQ for reduced errors. The easy-to-read LCD panel keeps you informed of all activity at all times.

You want modems? The PK-900 offers twenty software selectable modems and there are optimized modems for AMTOR, PACTOR, 45 baud RTTY, and packet. There is even a TAPR disconnect header so you can plug in other modems.

Call AEA's Literature Request Line at (206) 712-8054 for more information, or call us direct at (206) 774-5554. See your favorite ham radio dealer for best prices.

The PK-900 is the natural selection.

AEA

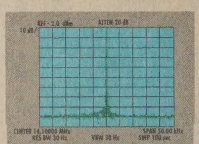
Connect with us

Expand Your Horizons to 6 Meters and Save $300!

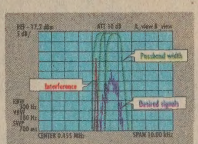
See your ICOM dealer for details.

IC-736: 6 Meters and HF!

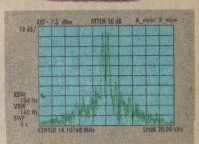
- ☐ HF and 6 Meters!
- ☐ 100 W Output for Both HF and 50 MHz
- ☐ Internal AC Power Supply
- ☐ Automatic Antenna Tuner (Covers 6 M to 160 M)
- ☐ Dual Antenna System
- ☐ 100% Full Duty Cycle
- ☐ Newly Developed DDS Circuit for 1 Hz Fine Tuning Resolution
- ☐ Quick Split Function (with pre-programmable offset)
- ☐ MOS-FET "Class A" Audio
- ☐ Multi-Function Meter (4-in-1)
- ☐ Double Cooling Fan
- ☐ Selectable Filters
- ☐ 10 dB Pre-amp, 20 dB Attenuator
- ☐ Built-in Electronic Keyer
- ☐ RIT, ΔTx, ΔRx
- ☐ 10 Key Pad
- ☐ VOX
- ☐ RF Gain
- ☐ 101 Memory Channels
- ☐ Passband Tuning
- ☐ AF-type Speech Compressor
- ☐ CW Full Break-In
- ☐ Notch Filter
- ☐ Noise Blanker
- ☐ Large Display



Transmitter C/N Ratio



PBT Characteristics



3rd IMD Characteristics

Now you can work all of the HF bands AND have access to one of the most exciting amateur bands – 6 M! The IC-736 is an all band, all mode transceiver with a general coverage receiver. Only an antenna, coaxial cable and AC outlet are necessary to get up-and-running with this rig. Cutting edge features and "plug 'n play" operation make the IC-736 a "complete station in a box!"

The IC-736's compact and cleverly designed **Automatic Antenna Tuner** has preset memories for each 100 kHz step, thereby providing very high speed tuning. Tunes all ham bands plus 6 M!

Equipped with **2 Antenna Connectors,** the IC-736 includes an **Automatic Antenna Selector.** In each band, the band memory memorizes the selected antenna so you don't need to change an antenna manually each time you change the operating band.

The IC-736 employs power **MOS-FET's** in the driver and final amplifier stages, providing a clean, 100 W of output power over all of the ham bands as well as the 50 MHz band.

An **Aluminum Die-Cast Frame** and **2 Large Cooling Fans** help stabilize the IC-736's PA circuit to obtain 100% full duty cycle operation. Performance you can count on under the most demanding of conditions.

CW fans will love the IC-736. The **Full Break-In Function** (QSK) allows you to receive signals between transmitted keying pulses (semi break-in is also available). **Separately Designed CW Key Jacks** allow you to connect both a memory keyer and a paddle – great for contest operation!

The **Double Band Stacking Register** memorizes 2 frequencies along with modes in each band so it can be used like 2 VFO's in one band.

Up to 10 **Electronic "Memo Pads"** are available. This is especially useful during contests or while DX hunting. When catching a station you would like to temporarily store, simply push the memo pad-write button. The frequency and mode is automatically stored in a memo pad so you can continue band searching.

For interference rejection, the IC-736 has **Passband Tuning** and a **Notch Filter.** During crowded band conditions, these two functions can be used in combination, providing an extremely effective method of reducing most types of interference.

The **RIT** and **ΔTX** functions independently change the receive or transmit frequencies, respectively. Great for split frequency operation or for compensating for the frequency drift of another station.

The IC-736's offset frequency for **Quick Split** Function can be pre-programmed. A **Split Lock** function prevents you from mistakenly changing the receive frequency while changing the transmit frequency.

A newly designed **DDS** (Direct Digital Synthesizer) provides frequency resolution to an exacting 1 Hz. Rotate the main dial and experience the comfortable analog feeling of fine tuning. One complete dial rotation is equal to 200 Hz.

Call ICOM's brochure hotline for more information: (206) 450-6088

ICOM's ON THE WEB! Join us today! http://www.icom america.com/icom

Contact ICOM Technical Support in the HamNet forum on CompuServe @75540,525 (Internet: 75540.525 @ compuserve.com.)

© 1995 ICOM America, Inc., 2380-116th Ave. N.E., Bellevue, WA 98004. The ICOM logo is a registered trademark of ICOM, Inc. All stated specifications are subject to change without notice or obligation. All ICOM radios significantly exceed FCC regulations limiting spurious emissions. CompuServe is a registered trademark of CompuServe, Incorporated, an H&R Block Company. 7361195Y

Experience the Quality

ICOM